

May 23, 2014  
Project No. 2339-356-03-00

# **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**220 W Eckman Street  
South Bend, Indiana**

**Funded by:**

**U.S. EPA by 128(a) Brownfield Grant to the  
Indiana Finance Authority/Indiana Brownfields Program**

**Prepared for:**

**Indiana Brownfields Program  
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Indianapolis, Indiana 46204**

**Prepared by:**

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## EXECUTIVE SUMMARY

The Indiana Brownfields Program (Program) retained **Weaver Boos Consultants, LLC** (Weaver Boos) to perform a *Phase I Environmental Site Assessment* (ESA) of the property located at 220 W Eckman Street in South Bend, Indiana (the Property). Weaver Boos performed this Phase I ESA in general compliance with the American Society for Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13) in an effort to identify, to the extent feasible, the presence of *recognized environmental conditions* with respect to the Property as defined in ASTM E 1527-13. Limiting conditions, exceptions to, or deletions from this practice are described in **Sections 1.5** and **12.0** of this *report*.

The Property consists of 3 parcels totaling an approximate area of 6.6 acres. The Property is approximately triangular in shape; it is wider in the north and tapers toward the south. The Property is improved with a single-story warehouse in the south and contains a dilapidated utility building and gatehouse at the northwest corner. Other buildings on the site have been razed, leaving large areas of concrete and tiled flooring across the northern half of the Property. A flat asphalt parking lot, with parking spaces marked by faded paint, exists along the northern edge of the Property next to a loading dock. The entrances to the site are blocked by chain-link fences at the northwest and large concrete blocks to the northeast. The derelict remains of several utility poles are at the western edge of the Property. The surrounding area generally consists of residential, commercial, and industrial property uses.

On April 18, 2014, Weaver Boos representatives Messrs. Edward Stefanek and Alex Huang visually assessed the Property for *recognized environmental conditions*, including but not limited to, the presence of *hazardous substances*, *hazardous wastes*, *petroleum products*, other wastes, *underground storage tanks* (USTs), aboveground storage tanks (ASTs), polychlorinated biphenyl (PCB)-containing equipment, or other potential environmental concerns.

Weaver Boos also performed a review of commercially available government records in an effort to identify *recognized environmental conditions* in connection with the Property. This records review addressed not only the Property, but also surrounding properties. The records review also included *reasonably ascertainable* historical data, which can be helpful in identifying the past uses of the Property and surrounding areas, as it may relate to the environmental condition of the Property.

Finally, Weaver Boos performed *interviews* with individuals who possess knowledge of the Property and surrounding properties in an effort to identify current and past uses of the Property and surrounding areas, as they may relate to the environmental condition of the Property.

ASTM E 1527-13 defines a *recognized environmental condition* as the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the *environment*; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis* conditions are not *recognized environmental conditions*.

Based upon the assessments described in this *report*, this Phase I ESA has revealed no evidence of *recognized environmental conditions* in connection with the Property except for the following areas where releases of hazardous substances or petroleum products are known or suspected:

- The historical detection of arsenic in surface material by the IDEM during its inspection of the Property in 2003 when an elevated concentration of 205 mg/kg was measured in surface material (suspected bag house dust) at the northeast corner of the Property;
- Large piles of apparent foundry waste located on the south end of the Property;
- Numerous piles of demolition debris at various locations on the Property;
- The presence of a heating oil UST as reported by the IDEM after reviewing the SESCO Group's Initial Site Characterization Report for which no other documentation was identified;
- Debris and water-filled pits at several locations within the historical building footprint;
- The presence of an oily stain on the ground where a transformer was suspected to have been located;
- The presence of an oily stain on the ground at the northwest of the Property, in the middle of which rested a blue tarp surrounded by sandbags;
- The oily-stained floor in the interior of the gatehouse; and
- The historic oilhouse included in the 1917 Sanborn™ map.

It should be noted that Weaver Boos was unable to observe much of the Property due to multiple Limiting Conditions outlined in **Section 1.5**. Because access to nearly half of the Property was restricted due to these Limiting Conditions, Weaver Boos believes that these *data gaps* are significant in our assessment of *recognized environmental conditions* in connection with the

Property. See **Section 10.0** for additional information on *data gaps* identified during this Phase I ESA.

This Executive Summary provides a brief overview of the findings of this Phase I ESA. Although the Executive Summary is an integral part of the *report*, it does not substitute for reading the entire *report* or the appended or referenced documents to fully understand the findings and conclusions of this Phase I ESA.

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## 1.0 INTRODUCTION

**Weaver Boos Consultants, LLC** (Weaver Boos) completed this *Phase I Environmental Site Assessment* (ESA) of the property located at 220 W Eckman Street in South Bend, Indiana (the Property) (see **Figure 1 - Property Location Map**). Funding for this service is provided by the U.S. EPA through a Section 128(a) Brownfield Grant to the Indiana Finance Authority/Indiana Brownfields Program (Program).

Weaver Boos performed this Phase I ESA in general compliance with the scope and limitations of American Society for Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13) and the terms and conditions of Project Amendment #9, authorized by the Program on March 6, 2014. Initiation of Weaver Boos' services began with the Program's approval on April 2, 2014 after the City of South Bend (City) executed a separate agreement necessary before the services could commence. Weaver Boos understands that this Phase I ESA was conducted on behalf of the Program primarily for the benefit of the City (the *user*) who is considering taking possession of the Property to facilitate its future sale to a bona fide prospective purchaser for economic redevelopment.

The following sections of this *report* present our Phase I ESA findings and conclusions. A glossary containing terms and definitions presented in ASTM E 1527-13 as indicated by italicized text in this *report* is included in **Appendix A – Glossary of Terms**. Other appendices presented at the end of the *report* consist of figures, interview and user-provided information, photographic documentation, regulatory records review documentation, historical records, and personnel qualifications.

### 1.1 Purpose

The purpose of this Phase I ESA is to identify and report, to the extent feasible, *recognized environmental conditions* with respect to the Property. ASTM E 1527-13 defines a *recognized environmental condition* as:

*The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions.*



Performing a Phase I ESA in general compliance with ASTM E 1527-13 may enable a *user* to satisfy one of the requirements to qualify for the *innocent landowner, contiguous property owner, or bona fide prospective purchaser* limitations on Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) liability; that is, the practice that constitute “*all appropriate inquiry* into the previous ownership and uses of the *property* consistent with good commercial or customary practice” as defined in 42 U.S.C. Section 9601(35)(B).

## **1.2 Detailed Scope-of-Services**

Weaver Boos performed this Phase I ESA in general compliance with ASTM E 1527-13, and the terms and conditions of Weaver Boos proposal LLCP-002-01-14 dated January 27, 2014. The scope of services for this Phase I ESA included the following:

1. Review of *publicly available, reasonably ascertainable, and practicably reviewable* standard government documents specified by ASTM E 1527-13.
2. Site reconnaissance in an effort to physically observe reasonably accessible interior and exterior areas of the Property, structures present at the Property and uses of adjoining properties from reasonably accessible public thoroughfares.
3. Interview reasonably available current and past owner(s) and occupant(s) of the Property and local/state governmental agency representatives in an effort to obtain *publicly available, reasonably ascertainable, and practicably reviewable* information concerning the current and historical uses of the Property and adjoining properties.
4. Review of *publicly available, reasonably ascertainable, and practicably reviewable* historical records concerning the Property and adjoining properties in an effort to obtain information concerning the historical uses of the Property and adjoining properties.
5. Prepare a written report that specifically lists any *recognized environmental conditions* identified during the course of the Phase I ESA, consolidates and discusses information gathered in the tasks described above, and appends any significant supporting documents.

Weaver Boos performed this Phase I ESA as described in our proposal LLCP-002-01-14 authorized by the Indiana Brownfields Program (Program) under Weaver Boos Project Amendment #9 dated March 6, 2014. Initiation of the Phase I ESA services commenced with the Program’s approval on April 2, 2014 after the City of South Bend executed a separate agreement necessary before the services could commence. The Terms and Conditions under

which this service is provided are as described in Weaver Boos Project Amendment #9 as well as the underlying Master Services Agreement in effect between Weaver Boos and the Program.

### **1.3 Standard of Care**

Weaver Boos conducted this Phase I ESA using a defined scope of services considered appropriate and agreed upon by all parties on the date the service was authorized, unless the scope of services or the methods used were later modified, in writing, and accepted by all parties prior to performance. Weaver Boos conducted this Phase I ESA in accordance with generally accepted practices in a manner consistent with that level of care exercised by other members of our profession in the same locality and under similar conditions of time and accessibility of improvements and information. No other representations, expressed or implied, and no warranty or guarantee is included or intended to be part of this Phase I ESA.

The scope of services performed in execution of this assessment may not be appropriate to satisfy the needs of other parties. We, therefore, are not responsible for independent conclusions, opinions, or recommendations of others based on our assessment. Furthermore, this Phase I ESA relates to the environmental conditions of the Property and does not address issues raised in transactions such as business risk, purchase of business entities, or interests therein, or of their assets, that may well involve environmental liabilities pertaining to properties previously owned or operated or other off-site liabilities.

Additionally, the findings of this Phase I ESA are based on Weaver Boos' observations, inquiries, and historical research using *reasonably ascertainable* and *practically reviewable* information obtained within *reasonable time and cost* constraints. Weaver Boos does not represent that this Phase I ESA is an exhaustive assessment that reflects the findings of all of the information available for the Property, nor is it representative of any future Property conditions. If additional information concerning the Property is discovered, it should be provided to us so that we may evaluate its impact on our conclusions. As such, any activities or episodes that transpire subsequent to this Phase I ESA are not considered in this assessment. A Phase I ESA performed in general compliance with ASTM E 1527-13 is not intended to be an exhaustive assessment of a *property* nor can it wholly eliminate uncertainty regarding the potential for *recognized environmental conditions* in connection with a *property*.

### **1.4 Significant Assumptions**

This Phase I ESA is based in part on information obtained from visual observations of the Property and vicinity, commercial data sources, and interviews with government agency

representatives, representatives of the *owners* of the Property and *occupants* of the Property. Weaver Boos assumes this information to be accurate, complete, and representative of Property conditions unless some fact or circumstance made known to Weaver Boos through the course of this assessment reasonably suggests otherwise.

### **1.5 Limiting Conditions and Exceptions**

ASTM E 1527-13 requires that the *environmental professional* shall document, in the *report*, general limitations and basis of review, including limitations imposed by physical obstructions such as adjacent buildings, bodies of water, asphalt, or other paved areas, and other physical constraints (for example snow or rain). Weaver Boos identified no limiting conditions in performing this assessment other than the following:

- Due to the presence of demolition debris, large piles of foundry sand, and large pits filled with water or debris, Weaver Boos was unable to fully assess the entire exterior surface of the Property.
- Due to the presence of stored equipment and materials and a thick layer of dark gray material, Weaver Boos was unable to visually observe the entire interior surfaces of the warehouse located on the Property.
- Due to the presence of water and/or construction debris, Weaver Boos was not able to observe the extent of the pits found throughout the remains of the former foundry building.
- Weaver Boos was unable to identify the first developed use of the Property based on the *reasonably ascertainable* information gathered from the *standard historical sources* that we reviewed.

Weaver Boos identified no exceptions in performing this assessment.

### **1.6 Special Terms and Conditions**

There were no special terms and conditions associated with performing this assessment beyond those in Weaver Boos proposal LLCP-002-01-14 dated January 27, 2014.

### **1.7 User Reliance**

This *report* is confidential and has been prepared for the exclusive use by Indiana Brownfields Program and the City of South Bend.

No additional parties may use the information contained in this *report* without obtaining the written permission of Weaver Boos. Weaver Boos' duties and obligations extend to the Indiana Brownfields Program and the City of South Bend and to no other party. Weaver Boos' duties and obligations to the Indiana Brownfields Program or City of South Bend are not transferable to any person, corporation, or organization without the express written consent of Weaver Boos.

This Phase I ESA *report* must be read and interpreted as a whole and can only be considered representative of the conditions of the Property as of the date of our *site reconnaissance* described herein. Weaver Boos makes no representation whatsoever concerning the condition of the Property beyond the date of our *site reconnaissance* described herein. Individual sections and appendices of this *report* are dependent on the balance of this *report*, and on the terms, conditions, and stipulations contained in the proposal and any written amendments accepted by Weaver Boos.

## 2.0 SITE DESCRIPTION

### 2.1 Location and Legal Description

The Property is located at 220 W. Eckman Street in South Bend, Indiana. The Property generally lies east of Green Tech Drive and south of Eckman Street (see **Figure 1 - Property Location Map**). The Property consists of approximately 6.6 acres spread among three irregularly-shaped parcels (ID #018-8013-059801, #018-8013-059802, and #018-8013-059803. According to Saint Joseph County Assessor Records, the owner of record for the 3.8-acre rectangular parcel (ID #018-8013-059802) north of Eckman Street is also Accucast Technology, LLC, but is not assessed in this Phase I ESA as part of the Property as requested by the Program and the City. In historical photographs, this parcel contained a parking lot that would have accommodated more personnel vehicles than the small lot on the Property south of W. Eckman Street.

The Property is described as various lots within the southwest  $\frac{1}{4}$  of the northwest quadrant of Section 24, Township 37 North, Range 2 East of the Second Principal Meridian in Saint Joseph County, Indiana. The (abbreviated) legal descriptions for the three parcels comprising the Property listed on Elkhart County & St. Joseph County Indiana GIS (MACOGGIS) Website are as follows:

1. Parcel Of R R Rightway Nw 1/4 Beg 77.2' E Of Sw Cor Nw 1/4 Cont .566 Ac More Or Less Sec 24 37 2e
2. Tract Sw Nw W Of Rr Cont 4.13 Ac On S Side W Eckman St & 3.75 Ac N Side W Eckman St Sec 24-37-2e
3. Parcel Of Land Beg North 666.35 Ft & East 54 Ft Of Sw Corner Nw 1/4 Sec 24-37-2e Cont 38180 Sq Ft

### 2.2 Site and Vicinity General Characteristics

The Property is approximately triangular in shape; it is wider in the north and tapers toward the south. The surface of the Property is largely covered by a concrete floor slabs remaining after the recent demolition of most of its historical foundry buildings. Two very small buildings remain on the Property; one moderately large warehouse building also remains. Other parts are paved with asphalt or concrete. Much of the Property is further covered by demolition debris and a large pile of apparent foundry waste. The surrounding area generally consists of residential, commercial, and industrial property uses. The land immediately adjoining the

Property is used for commercial and industrial use, but a large portion of developments further to the east appear to be single-family dwellings.

A review of the 1969 (photorevised 1986) South Bend West, Indiana, 7.5-minute quadrangle topographic map published by the United States Geological Survey (USGS) suggests that the Property is at an elevation of approximately 760 feet above mean sea level (msl).

### **2.3 Current Use of the Property**

The Property is currently vacant; its former structures were recently demolished and partially reclaimed for scrap according to information provided by the Program. The Property was formerly utilized as a gray-iron foundry since at least 1917 based on information obtained by Weaver Boos. Available file reports by the IDEM and others indicate that the Property was so utilized as early as 1874. The Property was previously occupied by Sibley Machine & Foundry from 1917 to approximately 2004, when the Property was sold to Accucast Technologies which operated the foundry until approximately 2010.

### **2.4 Description of Structures, Roads, and Other Site Improvements**

The Property is improved with a single-story warehouse in the south and contains a dilapidated utility building and gatehouse at the northwest corner. Other buildings on the site have been razed, leaving large areas of concrete and tiled flooring across the northern half of the Property. A flat asphalt parking lot, with parking spaces marked by faded paint, exists along the northern edge of the Property next to a loading dock. The entrances to the site are blocked by chain-link fences at the northwest and large concrete blocks to the northeast. The derelict remains of several utility poles are at the western edge of the Property.

Weaver Boos photographed select operations and improvements located on the Property to support this written *report*. Those photographs are included in **Appendix C - Photographic Documentation**.

### **2.5 Current Uses of the Adjoining Properties**

The following is a listing of the current adjoining properties including the applicable property name, address, operation, and direction from the Property. The addresses are taken directly from records and may not be valid mailing addresses.

<b>CURRENT ADJOINING PROPERTIES</b>			
<b>Property Name/Occupant</b>	<b>Address</b>	<b>Operation/Use</b>	<b>Direction from the Property</b>
Green Tech Transfer & Recycling	2500 Green Tech Drive	Industrial	West
Accucast Technologies	220 W Eckman Street	Unknown/Vacant	North across Eckman Street
Amland Corp	105 N Niles Av	Unknown/Vacant	Two disconnected parcels: 1 parcel east and 1 parcel south of the Property
Orangensaft LLC	202 LWE	Vacant and Industrial	East and southeast

### 3.0 USER-PROVIDED INFORMATION

ASTM E 1527-13 provides that certain Phase I ESA tasks are to be performed by the *user*. According to ASTM E 1527-13, these tasks should be performed by or on behalf of the party seeking to qualify for a Landowner Liability Protection (LLP) to CERCLA Liability. While such information is not required to be provided to the environmental professional, the environmental professional shall request that the *user* provide the results of these tasks as such information can assist the environmental professional in identifying *recognized environmental conditions* in connection with the Property.

Information provided by the Program included that which was listed on the Bid Proposal Request dated January 17, 2014. Inasmuch as the Program declined to complete a User-Provided Information Questionnaire, Weaver Boos provided the City of South Bend with the questionnaire. A copy of the User-Provided Information Questionnaire completed by the City of South Bend is included in **Appendix B – User-Provided Information**. In instances where the *user* did not provide the information requested, Weaver Boos has opined on the significance of the absence of this information as per ASTM E 1527-13. The following sections describe our review of the responses received, where applicable.

#### 3.1 Recorded Land Title Records

To meet the requirements of ASTM E 1527-13 and “all appropriate inquiries”, a search for the existence of *environmental liens* or *activity and use limitations* that are filed or recorded against the Property must be conducted. These documents can be commonly found within recorded land title records.

The *user* did not provide Weaver Boos with information concerning *recorded land title records* for the Property; however, the City of South Bend reported that it is unaware of any *environmental liens* or *activity and use limitations* in connection with the Property.

Additionally, Weaver Boos reviewed other records that were obtained to identify *environmental liens* or *activity and use limitations* in connection with the Property. The EDR report searched the Property for *activity and use limitations* and shows that the Property is not listed. Additionally, Weaver Boos searched the IDEM’s Institutional Controls Registry dated April 2, 2014, and found no listings under “Accucast” or “Sibley”. One listing was found under “Eckman [ST]”, which is the nearby former Studebaker Plant No. 8.



### **3.2 Environmental Liens or Activity and Use Limitations**

As mentioned within **Section 3.1**, to meet the requirements of ASTM E 1527-13 and “all appropriate inquiries”, a search for the existence of *environmental liens* and *activity and use limitations* must be conducted.

Weaver Boos requested an environmental lien search report from Advanced Searches of Cary, Illinois. EIS’s environmental lien search report identified no *environmental liens* or *activity and use limitations* with respect to the Property. A copy of the report can be found in **Appendix D – Regulatory Records Documentation**.

### **3.3 Specialized Knowledge**

The City of South Bend informed Weaver Boos that it is aware of no specialized knowledge or experience related to the Property or nearby properties.

### **3.4 Commonly Known or Reasonably Ascertainable Information**

The City of South Bend informed Weaver Boos that it is aware that the Property was formerly utilized by the Sibley Foundry, that a sludge lagoon was cleaned up under an EPA grant on the adjoining property to the east, and finally that an historical release of aviation fuel continues to be remediated on the property to the southeast. Robert Heslop of the adjoining Greentech facility previously indicated to Weaver Boos that the Studebaker company formerly manufactured and tested radial aircraft engines and that there were releases of aviation gasoline similar in composition to No. 1 diesel fuel.

### **3.5 Valuation Reduction for Environmental Issues**

The City of South Bend informed Weaver Boos that to their knowledge, the value of the Property is not applicable to its potential future possession of the Property.

### **3.6 Owner, Property Manager, and Occupant Information**

According to the January 17, 2014 Request for Proposal published by the Indiana Brownfields Program, the Property was abandoned shortly after being sold at a tax sale; the owner never took title. The Program indicated in an access agreement that the Property is currently owned by Steven Michael Morehead of Fort Wayne, Indiana. The Property has no current manager and no current occupants. The City of South Bend informed Weaver Boos that prior owners or occupants have included the following:

- Accucast Technology, LLC;
- Sibley Foundry; and,

- General Castings.

### **3.7 Reason for Performing Phase I ESA**

The Program requested that Weaver Boos perform this Phase I ESA in support of due diligence in connection with the City of South Bend's considered acquisition of the Property and potential remedial action and economic redevelopment of the Property.

### **3.8 Obvious Indicators of the Presence or Likely Presence of Contamination of the Property**

The Program provided Weaver Boos with a list of environmental file documents listed on the IDEM's Virtual File Cabinet (VFC) for review during the Phase I ESA. The Results of our review are discussed herein. The City of South Bend informed Weaver Boos that foundry sand remains present on the Property and that it has historically been used for manufacturing. The City of South Bend also indicated that the IDEM deemed action necessary in connection with the Property due to potential contaminants and their extent.

### **3.9 Other Information Relevant to the Property**

The City of South Bend provided parcel index numbers for the Property as well as summary legal descriptions.

## 4.0 RECORDS REVIEW

### 4.1 Standard Environmental Record Sources

According to ASTM E 1527-13, the purpose of reviewing regulatory records is to obtain and review records that will help identify *recognized environmental conditions* in connection with the Property. In addition, some records to be reviewed pertain not only to the Property, but also to properties within an additional ‘*approximate minimum search distance*’ in order to help assess the likelihood of problems from migrating *hazardous substances or petroleum products*. When the term ‘*approximate minimum search distance*’ includes areas outside the Property, it shall be measured from the nearest Property boundary. The term ‘*approximate minimum search distance*’ is used in lieu of the term ‘radius’ in order to include irregularly-shaped properties.

Weaver Boos retained Environmental Data Resources Inc. (EDR) of Milford, Connecticut to provide an ASTM Radius Map Report (EDR Report) for this Property. The EDR Report is a computerized search of select state and federal environmental databases that identify various properties with a record of environmental activity. Weaver Boos reviewed the EDR Report and summarized the relevant listings in the following sections. A copy of the compiled EDR Report has been included as **Appendix D - Regulatory Documentation**.

#### 4.1.1 Summary of Database Listings

According to the EDR Report, the Property is listed in the Leaking Underground Storage Tank (LUST) database, the SPILL database, and the Indiana Brownfields Program’s database. The property is a former small-quantity generator of hazardous waste, was assessed for inclusion on the National Priorities List, and has multiple regulatory violations on record.

Weaver Boos believes that these database inclusions do not represent Findings with respect to the Property for the following reasons:

- The LUST event, taking place in 1989, involved a relatively small (500 gallon) gasoline tank, was granted a “no further action” motion with unconditional closure. The database lists the event as low priority and that soil was the only medium affected.
- A 2004 spill involving chromium and lead reportedly affected groundwater, but no further details are given in the database entry. Weaver Boos has reviewed historical reports, discussed further in **Section 4.4.2**, that do not find concentrations of chromium or lead in groundwater that significantly exceed regulatory closure levels contemporary with the spill.

- The Property was a Small Quantity Generator of hazardous waste in 1989, but by 2002 had received a non-generator designation.
- The Property was assessed in 1993-1994 for inclusion in the National Priorities List, and was tagged with “Higher priority for further assessment.” A follow-up investigation in 2002-2003 determined that the “Site does not qualify for the NPL based on existing information.”
- Multiple state regulation violations and subsequent enforcement actions are listed from 2004-2009, but none of the entries have information on the nature or outcome of the incidents.

Additionally, the EDR Report identifies various adjoining properties on certain government databases:

- The former Studebaker Plant #8, located immediately west of the Property at the site of present-day Green Tech Transfer & Recycling, was formerly a large-quantity generator of hazardous waste. An Environmental Restrictive Covenant is on record for that site relative to surface soil, subsurface soil, and groundwater beneath the premises. Despite the plant’s proximity to the Property, groundwater flow in the area is in a northerly direction, and thus groundwater-borne contaminants are unlikely to migrate onto the Property from the former Studebaker Plant. Mr. Heslop, *key site manager* of the Green Tech Transfer & Recycling adjoining site, stated in his interview that sandbags are used to isolate runoff between the two properties.
- Multiple nearby properties are listed in databases, but all of these are found both downgradient and at a lower elevation than the Property. These include Don’s Body Shop, Forest Sign & Display, the Sherman-Williams Company, Napa Autocare Center, Scottsdale SVC Center, a Phillips 66/Kwik Mart, Clark Oil & Refining/Rainbow Muffler of South Bend, Discount Muffler, and EMI, Inc.
- F&A Laundry, located at 2817 S Michigan St., has four Underground Storage Tanks (USTs) on record. All four tanks have been decommissioned and no leaks have been recorded.
- Former Centennial Steel is located at 2901 S. Main Street, approximately one-eighth of a mile to the southeast of the Property. The site operated as a steel manufacturing facility from 1931 to 2004, and has been vacant for several years. Orangensoft LLC is the current owner according to information listed on the MACOGGIS website. Several incidents are on record for this site: two low-priority LUST incidents affecting soil in

1991, a spill involving PCB-laden oils from a transformer in 2008, and an unspecified hazardous materials violation that was recorded in 1984 and resolved in 1987. Weaver Boos notes that the PCB oil spill did not involve groundwater and that a Phase II Environmental Assessment was initiated on this site in 2007.

- Omnicare is located at 3006 S. Michigan St., approximately one-quarter of a mile from the Property. The site is currently a conditionally-exempt small quantity generator of hazardous waste (formerly a small quantity generator) and has no violations on file.
- The Linden Road Site, located at Linden Rd. and Chippewa, is approximately 0.36 miles southwest of the Property. It is only listed on the CERCLIS database, but has not been on the National Priorities List since January 2001. No other information was found in the EDR Report.
- The Super Auto Salvage Yard, located at 3300 S. Main St., is approximately 0.36 miles south of the Property. The site was considered for inclusion in the National Priorities List in 1994, but did not qualify. No other information was found in the EDR Report.
- Indiana GRQ Inc., located at 701 W. Chippewa Ave., is approximately 0.7 miles south-southwest of the Property. The site is currently a conditionally-exempt small quantity generator of hazardous waste; it was a small and large quantity generator at various times in the past. From 1987 to 2004, the site was assigned a high corrective action priority by the EPA. A 3/9/2004 action by the EPA declared that a RCRA Facility Investigation is not necessary. The nature of contamination or the specifics of any corrective action that took place is not clear from database entries found in the EDR Report.

Based on the information provided in the EDR Report, the presence of roads, structures, underground utilities, the distances from the Property, the geology in the area of the Property, and/or Weaver Boos' observations during our *site reconnaissance*, Weaver Boos does not believe any of the reported database listings represent a Finding in connection to the Property.

#### 4.1.2 Orphan Sites

The EDR Report includes a section addressing "Orphan Sites." Orphan sites are sites, which, due to incomplete geographic location data or incomplete or incorrect address information, cannot be plotted correctly. The EDR Report listed 20 orphan sites in vicinity of the Property, as well as the specific databases in which they are listed.

Weaver Boos used at least two online mapping tools to locate the orphan sites listed within the EDR Report. Based on our use of the mapping tools, Weaver Boos identified none of the orphan

sites as being adjoining properties, as repeats of existing entries, or data entry errors. Furthermore, based on the distance of the orphan sites from the Property and/or the databases in which they are listed, Weaver Boos believes their presence does not represent a Finding in connection with the Property.

#### *4.1.3 Vapor Encroachment Screen*

Weaver Boos conducted a Tier 1 Vapor Encroachment Screen (VES) as defined in the ASTM E 2600-10 Standard (Standard) as part of this Phase I ESA. This included a review of potential vapor encroachment sources through information provided by the EDR Report, historical records, and observations made during our *site reconnaissance*.

Based on our review of available information, no potential vapor encroachment conditions (VECs) were identified within the minimum search distances set forth within Section 8.3 of the Standard. Weaver Boos did not find any evidence that any operators of the Property used significant quantities of volatile materials, except for a single 500-gallon LUST that was decommissioned after the leak was discovered and granted a No Further Action designation by regulators. Of the adjoining sites that could contribute to VECs on the Property, they were either located downgradient of or cross-gradient to the Property or did not handle significant quantities of volatile materials.

## **4.2 Additional Environmental Record Sources**

Weaver Boos obtained and reviewed published, *reasonably ascertainable* information concerning the Property. Weaver Boos solicited that information from the following sources:

- Records on file at the City of South Bend Building Department;
- Records on file at the City of South Bend Fire Department;
- Records on file at the Indiana Department of Environmental Management (IDEM); and
- Records on file at the United States Environmental Protection Agency (USEPA);

The following sections summarize our review of those records.

### *4.2.1 City of South Bend Building Department Records Review*

Weaver Boos submitted an APRA request to the City of South Bend's Building Department on April 15, 2014 regarding information for the Property. According to our review of those records, Accucast, the erstwhile operator of the Property, applied for authorization to erect a 590 ft<sup>2</sup> dust

collector and channel furnace on April 18, 2005. The records also included a permit dated September 22, 2005 to erect the dust collector.

Copies of the City of South Bend Building Department FOIA request and response are included in **Appendix D – Regulatory Documentation**.

#### *4.2.2 City of South Bend Fire Department Records Review*

Weaver Boos submitted an APRA request to the City of South Bend Fire Department on April 15, 2014 regarding records of hazardous material incidents, USTs or other potential environmental concerns on the Property. As of the date of this *report*, the records have not been made available by the Fire Department for review. Weaver Boos will forward any information of interest to the *user* after it becomes available for review, if it significantly impacts our conclusions presented herein.

#### *4.2.3 Indiana Department of Environmental Management (IDEM) Records Review*

Weaver Boos accessed the IDEM’s Virtual Filing Cabinet for records associated with the Property. Several environmental reports pertaining to the environmental condition to the Property were found, and are discussed further in **Section 4.4.2 – Historical Environmental Reports**.

In addition to environmental reports, memoranda and inspection forms were also found in the Virtual Filing Cabinet. These forms detail how the Property operator repeatedly failed to comply with IDEM regulatory requests and eventually vacated the Property in early 2010.

Due to the large number of records found in the Virtual Filing Cabinet, a representative selection of records are included in **Appendix E – Environmental Records and Interview Documentation**.

#### *4.2.4 United States Environmental Protection Agency Records Review*

Weaver Boos queried the USEPA’s EnviroFacts database for records associated with the Property. Much of the information appears to be outdated, and the majority of the returned information was already reflected in the EDR Report or from other historical sources.

Copies of the USEPA EnviroFacts report are included in **Appendix E – Environmental Records and Interview Documentation**.

### 4.3 Physical Setting Sources

Weaver Boos obtained and reviewed published, *reasonably ascertainable* information concerning the physical setting of the Property. Weaver Boos obtained that information from a topographic map prepared by USGS.

The following is a summary of our review of those *physical setting sources*.

#### 4.3.1 Topography

The purpose of the topographic map review is to evaluate the presence of physical structures and/or unique topographic conditions that would be of potential importance in the event of a release or migration of a hazardous material to or from the Property. Weaver Boos reviewed the 1969 USGS South Bend West, Indiana, 7.5-minute quadrangle topographic map showing the area in which the Property is located (see **Figure 1**). The USGS map shows that the Property is at an elevation of approximately 760 feet above msl.

Our review of the above-referenced map revealed no indications of obviously apparent conditions that would represent a Finding for the Property.

#### 4.3.2 Regional Subsurface Geology

The Property and surrounding area are part of the Saint Joseph Aquifer System. According to the Indiana Department of Natural Resources Water Resource Assessment 87-1, the sediments of this system comprise medium sand to gravel interbedded with clay lenses. This is characteristic of an outwash plain, and groundwater flows fairly quickly in the subsurface.

The Property does not fall within any designated Wellhead Protection Areas (WHPAs), yet is located approximately 0.5 miles north of the City of South Bend's South Municipal Well Field. According to historical environmental reports performed on the Property, groundwater beneath the Property flows in a northerly direction, away from the South Municipal Well Field; this finding is consistent with literature regarding regional groundwater flow patterns in the Saint Joseph River Basin. The Property therefore appears to pose no threat to public water supply wells.

### 4.4 Historical Use Information

The objective in consulting historical sources is to develop a history of the previous uses or occupancies of the Property and surrounding area in an effort to identify those uses or occupancies that are likely to have resulted in the presence of a Finding in connection with the Property.



According to ASTM E 1527-13, identifying prior uses of the Property is a two-tiered process. The first step is to evaluate uses of the Property from the present back to the year 1940 using *standard historical sources*. The second step involves assessing the uses of the Property prior to the year 1940, or until a time when the Property was not yet developed, again using *standard historical sources*. Weaver Boos requested and reviewed the following *standard historical sources*:

- Historical aerial photographs;
- Fire Insurance Maps;
- Historical USGS 7.5-minute quadrangle maps;
- Local Street Directories; and
- Other Historical Records.

Our review of *standard historical sources* obtained during this Phase I ESA is presented in the following sections. Copies of the historical records that we obtained are included in **Appendix F - Historical Records Documentation**.

#### 4.4.1 *Historical Use Information on the Property*

In summary, our review of the historical records described in the following sections suggests that the Property was developed as the Meyer Foundry & Machine Co. in the early 1900's. File reports we reviewed by the IDEM and another consultant both indicate that foundry activities began at the Property in 1874; this was not verified by standard historical sources during this Phase I ESA. In 1917, Sibley Machine Company purchased the Property to supplement its already-existing operations elsewhere in South Bend. Shortly thereafter, the company changed its name to Sibley Machine & Foundry Corporation and operated the Property for several decades. According to comments made by Mr. William Voll, president of Sibley Machine & Foundry Co, Sibley switched from coke-fired furnaces to electric furnaces in the mid-1980's in response to impending environmental regulations and declared bankruptcy in 1987. The Property was leased to General Castings of Ohio from 1998-2002. General Castings eventually encountered financial difficulties and was evicted. Sibley sold the Property to Accucast Technology LLC in 2004. Accucast operated the Property until approximately late 2009 or early 2010 and ceased paying property taxes. The Property was later sold at tax sale by a buyer who demolished and scrapped the buildings, and subsequently abandoned the Property.

Weaver Boos was unable to verify the first developed use of the Property based on the *reasonably ascertainable* information gathered from the *standard historical sources* that we reviewed although it appears that foundry activities began in 1874. No information was found describing earlier developed use (if an).

#### 4.4.1.1 Historical Aerial Photographs

Weaver Boos reviewed historical *aerial photographs* provided by EDR. The following table summarizes the findings of our review of those photographs with respect to the Property and adjoining properties:

<b>AERIAL PHOTOGRAPHS</b>	
<b>Date</b>	<b>Observations</b>
1952	The Property is identifiable because of its distinctive triangular shape, but the photo is too blurry to discern details. The Studebaker plant is clearly visible to the west.
1960	The Property is shown with a number of visible buildings, including the warehouse at the south end.
1967	No significant changes on the Property or adjoining sites.
1973	This high-resolution photograph shows a P-shaped building at the eastern edge of the site, corresponding to where four large concrete pillars exist today. It is unclear if this is a new building, or simply not visible in older, less crisp photographs. The parcel north of the Property across Eckman St. is a parking lot.
1980	In this high-resolution color photograph, the size and orientation of the buildings match the footprint of present-day remnants. It is unclear if new buildings had been constructed between 1973 and 1980 due to lower contrast in previous aerial photographs. The roof of the adjoining Studebaker plant has begun showing signs of neglect.
1986	No significant changes on the Property or adjoining sites.
1992	The photo is too blurry to discern details, but there seems to be no significant changes on the Property or adjoining sites.
1998	No significant changes on the Property. The adjoining Studebaker plant and Former Centennial Steel (present-day Orangensoft) building show obvious signs of decay.
2005	Vegetation has begun encroaching on the Property boundaries, especially near the south. In the 1998, the Property was clear of vegetation.

<b>AERIAL PHOTOGRAPHS</b>	
<b>Date</b>	<b>Observations</b>
2006	No significant changes on the Property or adjoining sites.
2007	No significant changes on the Property or adjoining sites.
2010	In this crisp high-resolution photograph, vegetation has encroached on the boundaries of the Property and there appears to be a debris pile between the main building and the warehouse. The adjoining Studebaker plant to west has been razed.
2012	The buildings on the Property have been demolished, leaving behind piles of rubble and debris in their present-day configurations.

Our review of the *aerial photographs* revealed no indications of any obviously apparent conditions that would represent a Finding for the Property. Copies of the *aerial photographs* reviewed are included in **Appendix F - Historical Records Documentation**.

#### 4.4.1.2 Fire Insurance Maps

Weaver Boos reviewed Sanborn<sup>TM</sup> *fire insurance maps* provided by the Indiana University Map Collection, the St. Joseph County Public Library, and EDR. The following table summarizes the findings of our review with respect to the Property and adjoining properties:

<b>SANBORN FIRE INSURANCE MAPS</b>	
<b>Date</b>	<b>Observations</b>
1917	At this time, the Property is named Meyer Foundry & Machine Co. The map is tilted relative to cardinal directions. The buildings on the Property were smaller then, and included an oilhouse at the northwest corner of the Property.
1933	The Property had been acquired by Sibley Machine & Foundry Co., and the facilities significantly expanded. The building outlines match the footprint of the present-day remains. The oilhouse is not included in this map.
1949	The Property and its buildings are nearly identical to the previous map aside from some shaded rooms in the south of the large building.

SANBORN FIRE INSURANCE MAPS	
Date	Observations
1980	The Property and its buildings are nearly identification in orientation and structure, but additional annotations have been added since the previous map.

Our review of the Sanborn™ *fire insurance maps* identified an oilhouse on the Property. Weaver Boos lists this oilhouse as a Finding in connection with the Property as further discussed in **Sections 8.0 and 9.0**. Copies of the Sanborn™ *fire insurance maps* reviewed are included in **Appendix F - Historical Records Documentation**.

#### 4.4.1.3 Historical USGS Topographic Maps

Weaver Boos reviewed historical 7.5-minute USGS topographic maps obtained from Indiana University’s online library. The following table summarizes the findings of our review with respect to the Property and adjoining properties:

HISTORICAL TOPOGRAPHIC MAPS		
Map Name	Date	Observations
South Bend West	1958	The Property, complete with main building and warehouse at the south, is visible at the bottom right of the map. The Studebaker plant is also included to the west.
South Bend West	1969	No significant changes on the Property or adjoining sites.
South Bend West	1969 PR 1986	A small addition, highlighted in purple, has been annexed to the south portion of the main building on the Property. Additionally, a road (present-day Green Tech Drive) has been built along a section of the border between the Property and Green Tech.

Our review of the historical USGS topographic maps of the Property revealed no indications of any apparent conditions that would represent a Finding for the Property. Copies of the historical USGS topographic maps reviewed are included in **Appendix F - Historical Records Documentation**.

#### 4.4.1.4 Local Street Directory

Weaver Boos reviewed *local street directories* on file at the Saint Joseph County Public Library. The following table summarizes the findings of our review with respect to the Property and adjoining properties:

<b>LOCAL STREET DIRECTORIES</b>	
<b>Date</b>	<b>Observations</b>
1940	The Property is listed as Sibley Machine & Foundry Corp. A vacant lot, street number 211, is located between the Property and the intersecting Penna Railroad. Studebaker Corp. is listed as 400 W. Eckman St. and located to the west.
1945	Number 211 is no longer listed. The adjoining Studebaker property is clarified as Plant #8. No changes to the Property.
1950	No changes from 1945 directory.
1955	No changes from 1945 directory.
1960	No changes from 1945 directory, though the Property is labeled as “plant 3” and Penna Railroad was relabeled “PRR.”
1965	No changes from 1945 directory, though the intersecting railroad is now labelled PRR.
1970	No change at the Property and Studebaker Plant #8. However, the PRR was rebranded Penn Central and a listing was added at 408 W. Eckman St. for Studebaker Automotive Sales Corp.
1975	No change at the Property. Both Studebaker facilities at 400 and 408 W. Eckman St. are no longer listed. No entries are recorded between Penn Central Railroad and the newly-listed Main St. to the east.
1980	No change from the 1975 listing, except the Penn Central Railroad had been renamed Conrail.
1985	220 W. Eckman St. is listed as vacant. No changes in adjoining areas.
1990	220 W. Eckman St. is once again listed as Sibley Machine & Foundry Corp.

<b>LOCAL STREET DIRECTORIES</b>	
<b>Date</b>	<b>Observations</b>
1995	No changes from 1990 directory.
2000	220 W. Eckman St. is listed as South Bend Foundry. For the first time placed between Main St. and the railroad.
2005	220 W. Eckman St. is listed as S M & F MFG INC, and is once again listed between Main St. and the Railroad. West of the railroad is Franklin Street.
2010	220 W. Eckman St. is listed as Accucast, and is still placed between Main St. and the Railroad. A new entry, Quick Bins, is listed at 300 W. Eckman St., west of the railroad intersection. Franklin Street was renamed Green Tech Drive.
2011	220 W. Eckman St. is no longer listed. Quick Bins is still listed at 300 W. Eckman St., and a new entry of "Morris M" was listed at 400 W. Eckman St., west of the intersection with Green Tech Drive.
2012	No entries. Only the Main St., railroad, and Green Tech Drive intersections are listed.
2013	No entries. Only the Main St., railroad, and Green Tech Drive intersections are listed.

Our review of the *local street directories* report revealed no indications of any apparent conditions that would represent a Finding for the Property. A copy of the *local street directories* is included in **Appendix F - Historical Records Documentation**.

#### 4.4.2 Historical Environmental Reports

Weaver Boos reviewed historical environmental reports that were recorded in the IDEM's Virtual Filing Cabinet (VFC). Copies of selected reports are included in **Appendix F - Historical Records Documentation**. The following describes the findings of our review of the following specific reports:

1. IDEM, September 2003, Screening Site Inspection Report for Sibley Machine and Foundry, South Bend, Indiana, St. Joseph County, U.S. EPA ID: IND984892521.

2. SESCO Group, February 2007, RISC-Based Initial Site Characterization (ISC) Report, Former Sibley Foundry, SESCO Group Project Number 3316, State Cleanup Incident #2004-11-003.
3. SESCO Group, January 2008, Further Site Investigation (FSI) Report, Former Sibley Foundry, SESCO Group Project Number 3316, State Cleanup Incident #2004-11-003.
4. SESCO Group, July 2008, Surface Soil Sampling Report, Former Sibley Foundry, SESCO Group Project Number 3316, State Cleanup Incident #2004-11-003.
5. SESCO Group, April 2009, Groundwater Monitoring Event, SESCO Group Project Number 3316, State Cleanup Incident #2004-11-003.
6. IDEM, September 2009, No Further Action Letter, Sibley Foundry, State Cleanup Section, Indianapolis, Indiana.

The 2003 site investigation conducted by the IDEM found concentrations of several metals in surface soil samples collected on the Property to be elevated compared to samples collected from off-site locations. One sample collected from the northeast corner of the Property indicated a particularly elevated concentration of arsenic at 205 mg/kg. The IDEM's report suggests that this sample may have included bag house dust that was released to the surface of the ground in the affected area. One year later, SESCO Group conducted a limited subsurface investigation, which was followed by an Initial Site Characterization Report in 2007, a Further Site Investigation report in 2008, a Surface Soil Sampling Report later in 2008, and a Groundwater Monitoring Event Report in April 2009. In total, SESCO advanced ten (10) soil borings, installed three (3) monitoring wells, and collected multiple soil and groundwater samples from September 2006 to April 2009. At the conclusion of the April 2009 Groundwater Monitoring Event Report, SESCO stated that all Constituents of Concern (COC) concentrations in all samples were either below method detection levels or below Industrial Default Closure Levels as listed in the IDEM's Risk Integrated System of Closure non-rule policy, the contemporary regulatory guidelines at the time the report was written. SESCO concluded this report with a request for the issuance of a No-Further Action (NFA) Letter by the State Cleanups Section of the IDEM.

The IDEM responded to the SESCO Group's April 27, 2009 Groundwater Monitoring Event Report by issuing a NFA Letter on September 29, 2009. The NFA letter concluded that monitoring wells and/or piezometers are no longer necessary to monitor groundwater quality or groundwater levels and must be permanent abandoned. The NFA letter stated in closing that:

*Based on the information provided, as well as current site use, no further action is required at this time. IDEM reserves the right to modify this determination if additional data or information becomes available that this site may become a risk to human health or the environment.*

#### *4.4.3 Historical Use Information on Adjoining Properties*

Based upon our review of the aforementioned historical records, the northern adjoining property appears to have been developed by Sibley Machine & Foundry as a parking lot for employee vehicles. The southern adjoining property appears to have never been developed. The eastern adjoining property appears to have been developed as Former Centennial Steel (present-day Orangensoft) and is currently vacant, and the western adjoining property appears to have been developed as a Studebaker manufacturing facility and now operates as a transfer station and recycling center.

#### *4.4.4 Other Historical Sources*

Weaver Boos reviewed newspaper clippings pertaining to the Property and found that the Sibley Machine Company was founded in 1876 on 206 E. Tutt St. in South Bend. The company acquired the Property, then owned by Motors Castings Company (called the Meyers Foundry in historical Sanborn maps), in 1917. A copy of this clipping is included in **Appendix F - Historical Records Documentation**.



## 5.0 SITE RECONNAISSANCE

Weaver Boos representative Messrs. Edward Stefanek and Alex Huang conducted the *site reconnaissance* on April 18, 2014. During the *site reconnaissance*, weather conditions were partly cloudy, no precipitation, and a temperature of approximately 60 degrees Fahrenheit. The following sections summarize our observations during the *site reconnaissance*.

### 5.1 Methodology and Limiting Conditions

Weaver Boos' *site reconnaissance* methods included a *site visit* to *visually and/or physically observe* reasonably accessible locations of the Property in an effort to obtain information indicating the likelihood of identifying *recognized environmental conditions* in connection with the Property. Messrs. Stefanek and Huang traversed the exterior of the Property and the interior spaces of the southern warehouse by foot to observe conditions during the *site reconnaissance*. Photographs taken to document conditions encountered at the time of the *site reconnaissance* are presented in **Appendix C – Photographic Documentation**. Weaver Boos also *visually and/or physically observed* adjoining properties from reasonably accessible locations on the Property and public thoroughfares. Limiting conditions encountered at the Property during the *site reconnaissance* are included in **Section 1.5**.

### 5.2 General Site Setting and Observations

Please refer to **Section 2.0** of this *report* for a description of the general site setting, adjoining public thoroughfares, utilities, and potable water supply and **Section 4.3** for a description of topographic and geologic/hydrogeologic conditions with respect to the Property.

During our *site visit*, Weaver Boos noted that the Property is currently unoccupied and a large portion of the area is covered with foundry sand and piles of demolition debris. The thickness of the foundry sand varies, from several inches thick along the former railroad tracks, to nearly 30 feet high at the highest point. Clinkers and casting molds were common inclusions in the foundry sand. The demolition debris consisted mostly of lumber beams, concrete rubble, rebar, and brick. Near the center of the Property and near the southern portion of the former foundry building, there is a large cylindrical object, which appears to be a furnace, lying on the ground.

The inside of the warehouse contains storage racks and wooden pallets, but was otherwise mostly empty. Several large molds and castings were left behind, and the floor was covered with a layer of dark-grayish dust.

Please refer to **Section 2.5** for a summary *adjoining properties* occupants and uses identified during our *site reconnaissance*. The following sections summarize Weaver Boos' *site reconnaissance* observations.

### **5.3 Interior and Exterior Observations**

#### *5.3.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses*

Weaver Boos did not observe any hazardous substances or petroleum products stored on the Property. The derelict gatehouse contained a 5-gallon red plastic gasoline dispenser, but it was empty. Mr. Heslop, *key site manager* of the Green Tech Transfer & Recycling adjoining site, stated in his interview that he has not observed any petroleum releases.

#### *5.3.2 Storage Tanks*

##### 5.3.2.1 Underground Storage Tanks (USTs)

Weaver Boos observed no apparent surficial indications of USTs (e.g., fill pipes, vent lines, or manways) on the Property during the *site visit*. However, according to historical environmental sources as described in **Section 4.1.1**, at least one 500-gallon gasoline UST was formerly located on the Property and a minor release from that UST occurred. The tank was subsequently decommissioned and granted a No Further Action designation. The IDEM's May 3, 2007 Further Site Investigation Request letter to the Sibley Machine & Foundry Company mentions that the Sesco Group indicated in its February 2, 2007 Initial Site Characterization Report that a heating oil UST was present on the Property. The location, capacity, or depth of the UST was not apparently provided in the Sesco report. Weaver Boos found no additional information regarding this heating oil storage tank noted at the Property. Both references to USTs formerly or currently located on the Property are regarded as Findings in connection with the Property.

##### 5.3.2.2 Aboveground Storage Tanks (ASTs)

Weaver Boos observed no apparent ASTs on the Property during the *site visit*. However, Weaver Boos observed an AST on the adjoining Green Tech Transfer & Recycling facility to the west near a staging area. This AST did not have any apparent leaks.

#### *5.3.3 Odors*

No apparent unusual odors were noted on the Property during the *site visit*.

#### 5.3.4 Pools of Liquid

No apparent pools of liquid were observed on the Property during the *site visit* except as mentioned in the following **Section 5.3.5**.

#### 5.3.5 Pits, Ponds, and Lagoons

Weaver Boos observed multiple pits on the northern portion of the Property, where the foundry building originally stood. All of the pits were filled with demolition debris and/or water, preventing Weaver Boos from observing the insides of the pits. The depth of one water-filled pit was tested with a plank of wood; it was at least four feet deep.

Mr. Heslop, manager of the Green Tech Transfer & Recycling adjoining site, mentioned that there may have been underground tunnels beneath the Property. No obviously apparent indications of underground tunnels were observed during the *site visit*.

#### 5.3.6 Drums

Weaver Boos identified no apparent visible indications of drums on the Property during the *site visit*.

#### 5.3.7 Hazardous Substance or Petroleum Product Containers

Weaver Boos observed no apparent *hazardous substance* or *petroleum product* containers during the *site visit* other than those described in **Section 5.3.1**.

#### 5.3.8 Unidentified Substances Containers

A cylindrical object, thought to be a furnace, is located at the south of the former foundry building, corresponding to the approximate center of the Property. This object contains several large chunks of brightly-colored materials, surmised to be slag or oxidized flux. The total quantity of unidentified material seems to be small, and is confined to the immediate area of the furnace.

#### 5.3.9 Polychlorinated Biphenyls (PCBs)

Although a detailed review of all suspected PCB-containing equipment is beyond the scope of this Phase I ESA, Weaver Boos conducted a limited evaluation of the Property in an effort to identify the presence and condition of electrical or hydraulic equipment that is known to or is likely to contain PCBs in insulating or lubricating materials which may be an environmental concern. PCB-containing equipment and any of its leaked material that may have impacted the Property could be subject to certain regulatory requirements, such as the Federal Toxic

Substances Control Act (TSCA), in addition to being identified as a potential *recognized environmental condition* for the Property.

Weaver Boos identified the following indication of historical potentially PCB-containing equipment based on visually observed conditions:

- Electrical transformers inferred to have been located on the Property along the western Property boundary line. A set of derelict utility poles with remains of extensive wiring fixtures is located there, along with a dark oily stain on the ground. There are no transformers on-site, but the stain emanates from where a transformer may have been located. Facility operations on the Property originated prior to 1979. This is generally the date when the production and sale of PCBs was banned. Therefore, the aforementioned equipment may have contained PCBs.

#### *5.3.10 Stains or Corrosion*

Apparent oily stains were located on the northwest portion of the Property in the open, and inside the dilapidated gatehouse. The exterior stain observed in the northwestern area was approximately 50 square feet in size, with a blue tarp surrounded by sandbags in the center. The staining inside the gatehouse covered almost the entirety of the floor. There were several large high-ampere fuses discarded on the floor. According to our observations, the surfaces exhibiting staining were observed to be in moderate condition with a few visual indications of cracks and/or joints. Another large oily stain, suspected to be laden with PCBs, was described in **Section 5.3.9**.

#### *5.3.11 Drains and Sumps*

Several apparent *drains* or *sumps* were observed on the Property during the *site reconnaissance* filled either with water or debris; one manhole was dry and partly filled with debris. A small circular opening in an apparent floor was observed at one location.

#### *5.3.12 Stained Soil or Pavement*

Apparent stained soil and pavement were described in **Sections 5.3.9** and **5.3.10**.

#### *5.3.13 Stressed Vegetation*

No apparent stressed vegetation was observed on the Property during the *site visit*. Large trees, shrubs, and grasses were observed growing out of the piles of foundry sand.

#### 5.3.14 Solid Waste

Large piles of *demolition debris* were observed in numerous locations on the Property during the *site visit*. Wooden pallets, lumber beams, and railroad ties, concrete rubble and rebar, bricks, and insulation were arranged in piles along the western edge of the Property and within the footprint of the historic foundry building. Despite the age of the original foundry building, Weaver Boos did not observe obviously apparent signs of asbestos-containing materials on the surface of the debris piles. Mr. Heslop, *key site manager* of the Green Tech Transfer & Recycling adjoining site, stated in his interview that he provided a quote for the disposal of the debris at an unspecified time in the past.

Foundry sand covered most of the southern portion of the Property, ranging from several inches thick near the former railroad tracks to the East to nearly 30 feet high near the southern warehouse. The foundry sand was piled into ridges that covered the eastern and western flanks of the warehouse; the trees growing out of these ridges indicates that the ridges had not been disturbed for several years. Several super sacks of apparent foundry sand were also found at the western edge of the Property, along the boundary shared with Green Tech. Upon cursory examination, the sand spilling out of these bags was nearly black – much darker than the dark brown found over most of the Property.

Small quantities of litter such as bottles and wrappers were strewn throughout the site, either windblown from the adjacent transfer station or left behind by trespassers. The gatehouse also contained a several discarded electrical fuses.

#### 5.3.15 Wastewater, Wells, Septic Systems

Several manholes were observed on the Property. Some were dry and some were filled with water and debris. Two vertical pipes filled to the brim with water were observed at the western and northern edges of the former foundry building. The purposes of the two pipes were unclear, but they may have been used as wells at one point, or they might be leaky connections with the municipal water supply formerly providing water to fire hydrants that were subsequently removed.

Three groundwater monitoring wells were reported by the SESCO Group as part of their Initial Site Characterization work. None of the three monitoring wells was found or observed during the *site visit*.

## 6.0 ADDITIONAL SERVICES

According to ASTM E 1527–13, there are certain constituents of potential environmental concern not necessarily covered by CERCLA’s “all appropriate inquiries”, which are considered “additional services”. As such the *user* may choose not to include these items. ASTM identifies these items as follows:

- Suspect Asbestos-Containing Materials;
- Biological Agents;
- Cultural and Historic Resources;
- Ecological Resources;
- Endangered Species;
- Health and Safety;
- Indoor Air Quality (unrelated to releases into the environment);
- Industrial Hygiene;
- Lead-Based Paint;
- Lead in Drinking Water;
- Mold;
- Radon;
- Regulatory Compliance; and
- Wetlands.

For the purpose of this Phase I ESA, these items are therefore excluded from this Phase I ESA unless any item has been specifically selected by the *user*. No additional services were requested by the *user* as part of this Phase I ESA.

## 7.0 INTERVIEWS

Weaver Boos representative Mr. Alex Huang and Steven Stanford *interviewed* or attempted to *interview* select individuals considered likely to possess knowledge of the current and past Property uses in an effort to obtain information concerning the potential presence of *recognized environmental conditions*. Such individuals consist of persons or local agency officials that may have records or knowledge of events or conditions that are not evident during the *site reconnaissance* or records review.

### 7.1 Interview with Owner

Information listed on the MACOGGIS Website indicates that the Property is owned by Accucast Technology LLC, for which the Indiana Secretary of State (SOS) lists no principal. The registered agent is National Registered Agents, Inc., of Indianapolis, Indiana. The SOS lists no contact telephone number for the registered agent or any principal of the company. Weaver Boos nevertheless identified Mr. William Voll Jr. as the President of the Sibley Machine & Foundry Corporation, and Mr. Joseph A. Seher as the former *owner* of now-defunct Accucast Technologies LLC. Our interview of Mr. Voll Jr. is further discussed in Section 7.4 as a former *owner* of the Property.

The site access agreement provided by the Program to facilitate this Phase I ESA lists Steven Michael Morehead of Fort Wayne, Indiana as the current *owner* of the Property. Weaver Boos contacted Mr. Michael Morehead who explained that he purchased one parcel along the railroad right of way but never paid the taxes due on it. He indicated that he was unsuccessful in learning any useful factual information about the Property from the prior owner and provided no significant information relative to the Property. Documentation of our interview with the *owner* is provided in **Appendix E – Environmental Records and Interview Documentation**.

### 7.2 Interview with Key Site Manager

The property is abandoned and vacant, so Weaver Boos identified no *key site manager* for an interview. The lack of an interview with the *key site manager* constitutes a data gap as further discussed in **Section 10.0**.

### 7.3 Interviews with Occupants

The property is abandoned and vacant, so Weaver Boos could not identify any *occupants* for an interview.

#### **7.4 Interviews with Past Owner, Operators, and Occupants**

Weaver Boos identified Mr. William Voll Jr. as the President of the Sibley Machine & Foundry Corporation, and Mr. Joseph A. Seher as the former *owner* of now-defunct Accucast Technologies LLC.

Weaver Boos interviewed Mr. Voll as a past *owner* of the Property, concerning the past use of the Property, the facility operations, and improvements to the Property. Mr. Voll has been associated with the Property since 1992, taking control of the family business several years after it declared bankruptcy. Weaver Boos obtained Mr. Voll's interview responses during a telephone interview on April 9, 2014. The interview responses are included throughout the *report*. Documentation of our interview with the *past owner* is provided in **Appendix E – Environmental Records and Interview Documentation**.

Weaver Boos made a reasonable attempt to interview another past *owner* of the Property, Mr. Joseph A. Seher. Mr. Seher had been the owner of Accucast Technologies, LLC. However, our attempts proved unsuccessful due to Mr. Seher's absence from most public directories, such as the White Pages.

#### **7.5 Interviews with Adjoining Property Owners or Occupants**

The Property is abandoned and Weaver Boos observed indications of unauthorized uses or uncontrolled access as described in **Section 5.3.14**. As a result, Weaver Boos interviewed Mr. Robert Heslop who manages the adjoining Green Tech Transfer & Recycling adjoining property, concerning the current and past use of the Property, the facility operations, and recent improvements to the Property. Weaver Boos obtained Mr. Heslop's interview responses during a telephone interview. The interview responses are included throughout the *report*. Documentation of our interview with the *occupant* of the *adjoining property* is provided in **Appendix E – Environmental Records and Interview Documentation**.

#### **7.6 Interviews with Government Officials**

Weaver Boos contacted the following federal, state, and local government agencies as discussed in **Section 4.2** during the Phase I ESA requesting environmental information associated with the Property:

- City of South Bend Building Department Records Review
- City of South Bend Fire Department Records Review
- Indiana Department of Environmental Management (IDEM) Records Review



- United States Environmental Protection Agency Records Review

Information obtained from these government officials is discussed in **Section 4.2**.

## **7.7 Interviews with Others**

Weaver Boos did not interview any others beyond those parties described in this *report*.

## 8.0 FINDINGS

Weaver Boos has performed this Phase I ESA, in general compliance with the scope and limitations of ASTM E 1527-13. Exceptions to or deletions from this practice are described in **Section 1.5** and **Section 12.0** of this *report*.

The following is a summary of any known or suspect environmental conditions associated with the Property. These may be separated into the following categories: *recognized environmental conditions (REC)*, *historical recognized environmental conditions (HREC)*, *controlled recognized environmental conditions (CREC)*, and *de minimis* conditions as discussed further in **Section 9.0** and following. Weaver Boos has identified the following Findings in connection with the Property where releases of petroleum products or hazardous substances are documented or suspected:

- The historical detection of arsenic in surface material by the IDEM during its inspection of the Property in 2003 when an elevated concentration of 205 mg/kg was reported in a sample of surface material (suspected baghouse dust) at the northeast corner of the Property;
- Large piles of apparent foundry waste located on the south end of the Property;
- Numerous piles of demolition debris at various locations on the Property;
- The presence of a heating oil UST as reported by the IDEM after reviewing the SESCO Group's Initial Site Characterization Report for which no other documentation was identified;
- The former presence of a permanently closed 500-gallon gasoline UST;
- Debris and water-filled pits at several locations within the historical building footprint;
- The presence of an oily stain on the ground where a transformer was suspected to have been located;
- The presence of an oily stain on the ground at the northwest of the Property, in the middle of which rested a blue tarp surrounded by sandbags;
- The oily-stained floor in the interior of the gatehouse; and
- The historic oilhouse included in the 1917 Sanborn™ map.

Upon further review of information as discussed in **Section 9.0**, Weaver Boos finds that several of the above-mentioned Findings meet the definition of a *recognized environmental condition (REC)*.

## 9.0 OPINION

The following is Weaver Boos' professional opinion regarding the potential impact of any known or suspect environmental conditions presented in **Section 8.0**.

- The historical detection of arsenic (a hazardous substance) in surface material by the IDEM during its inspection of the Property in 2003 (suspected baghouse dust) at the northeast corner of the Property is considered a *REC* although a NFA Letter was subsequently issued by the IDEM. The NFR Letter would appear to resolve this issue as either an *HREC* or a *CREC*, yet it appears to imply resolution only under continued industrial use. The NFR Letter incorporates no controls to restrict future land use against future residential use.
- The large pile of apparent foundry waste is considered a *REC* for its potential to contain petroleum products or hazardous substances at concentrations of concern under conditions suggesting the potential for leaching, erosion, or other transport to adjoining areas or groundwater.
- The demolition debris is considered a *REC* for its potential to contain petroleum products or hazardous substances at concentrations of concern under conditions suggesting the potential for leaching, erosion, or other transport to adjoining areas or groundwater.
- The potential presence of a heating oil UST is considered *REC* because of the propensity for such facilities to leak and release petroleum products to soil or groundwater beneath the Property.
- The former presence of the permanently closed 500-gallon gasoline UST is considered a *historical recognized environmental condition (HREC)* in connection with the Property owing to its closure under an unconditional NFA Letter.
- The debris and water-filled pits at several locations within the historical building footprint are considered a *REC* for the potential for historical releases of petroleum products such as lubricants or
- The oily stain on the ground near a suspected former transformer is considered a *REC* for two reasons: the release of an oily substance at greater than a de minimis amount, and the possibility that the source was a transformer manufactured prior to 1979 that may contain PCBs.

- The oily stain on the ground at the northwest of the Property is considered a *REC* due to the release of an oily substance to the surface of the ground in greater than a *de minimis* amount.
- The oily-stained floor in the interior of the gatehouse is considered a *REC* due to the release of an oily substance although no large storage containers were found in the room.
- The historic oilhouse included in the 1917 Sanborn™ map is considered a *REC* due to propensity for old oil houses to leak significant quantities of oil into the ground.

## 10.0 DATA GAPS

ASTM E 1527-13 defines a *data gap* as lack of or inability to obtain information required by the practice despite *good faith* efforts by the *environmental professional* to gather such information.

Weaver Boos was unable to identify the first developed use of the Property based on the *reasonable ascertainable* information gathered from *standard historical sources*. Therefore, this *data gap* is considered a *data failure*. Based on *reasonably ascertainable* existing historical records for the Property and the nature of the historical property uses as a foundry before its acquisition by Sibley Machine & Foundry, Weaver Boos believes that this *data gap* would not be significant in our assessment of whether *recognized environmental conditions* exist on the Property.

Furthermore, Weaver Boos was unable to interview Mr. Joseph Seher, the former *owner* of Accucast Technologies, LLC. Weaver Boos considers this to be a *data gap* comprising *data failure*. It is possible, in the opinion of Weaver Boos, that Mr. Seher may have knowledge of operations or historical releases of hazardous substances or petroleum products that would provide support for a more accurate and complete Phase I ESA.

Weaver Boos was unable to observe much of the Property due to multiple Limiting Conditions outlined in **Section 1.5**. Because observation of nearly half of the Property was restricted due to these Limiting Conditions, Weaver Boos believes that these *data gaps* are significant in our assessment of *recognized environmental conditions* in connection with the Property.

## 11.0 CONCLUSIONS

Weaver Boos has performed this Phase I ESA, in general compliance with the scope and limitations of ASTM E 1527-13 of 220 W Eckman Street in South Bend, Indiana, the Property. Exceptions to, or deletions from, this practice are described in **Section 1.5** and **12.0** of this *report*. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the Property except the following areas where releases of hazardous substances or petroleum products are known or suspected:

- The historical detection of arsenic in surface material by the IDEM during its inspection of the Property in 2003 when an elevated concentration of 205 mg/kg was detected in surface material (suspected baghouse dust) at the northeast corner of the Property;
- Large piles of apparent foundry waste located on the south end of the Property;
- Numerous piles of demolition debris at various locations on the Property;
- The presence of a heating oil UST as reported by the IDEM after reviewing the SESCO Group's Initial Site Characterization Report for which no other documentation was identified;
- Debris and water-filled pits at several locations within the historical building footprint;
- The presence of an oily stain on the ground where a transformer was suspected to have been located;
- The presence of an oily stain on the ground at the northwest of the Property, in the middle of which rested a blue tarp surrounded by sandbags;
- The oily-stained floor in the interior of the gatehouse; and,
- The historic oilhouse included in the 1917 Sanborn™ map.

Furthermore, it should be noted that Weaver Boos was unable to observe much of the Property due to multiple Limiting Conditions outlined in **Section 1.5**. Because access to nearly half of the Property was restricted due to these Limiting Conditions, Weaver Boos believes that these *data gaps* are significant in our assessment of *recognized environmental conditions* in connection with the Property.

## 12.0 DEVIATIONS

Deletions and deviations from ASTM E 1527-13 during this Phase I ESA are described in **Section 1.5** of this *report*.

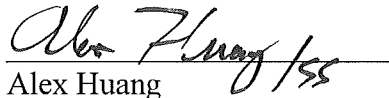


### 13.0 REFERENCES

1. American Society for Testing Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (ASTM E 1527-13).
2. Indiana Department of Natural Resources *Water Resource Availability in the St. Joseph River Basin, Indiana: Water Resource Assessment 87-1*
3. *Screening Site Inspection Report for Sibley Machine and Foundry* by the Indiana Department of Environmental Management dated September 10, 2003
4. *Further Site Investigation Report* by Sesco Group dated January 28, 2008
5. *Groundwater Monitoring Event Report* by Sesco Group dated April 27, 2009

**14.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL**


“I declare that I have completed this Phase I ESA under the direct supervision of an *environmental professional*” (see below).

  
Alex Huang  
Field Geologist

“I, declare that, to the best of my professional knowledge and belief, I meet the definition of *environmental professional* as defined in §312.10 of 40 CFR 312” and

“I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.”

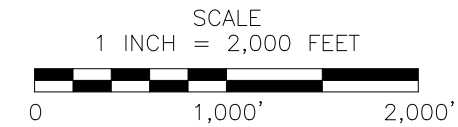
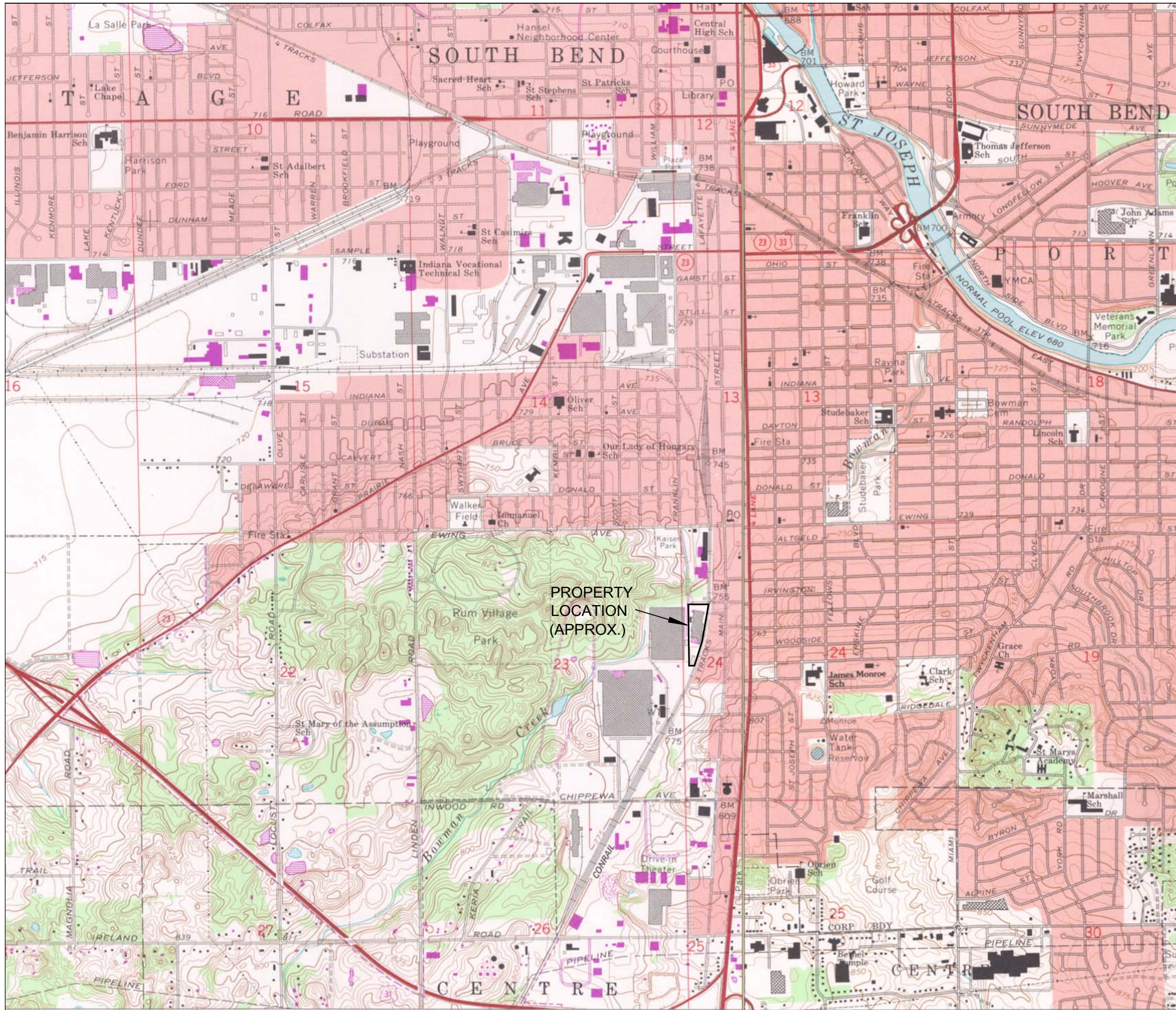
This Phase I ESA was performed by, or under direct supervision of, the undersigned *environmental professional*. Resumes are included in **Appendix G - Personnel Qualifications**.

  
Steven Stanford LPG  
Senior Project Manager



EXP  
7/31/2016

## **FIGURES**



**NOTE:**  
 1. SOUTH BEND WEST, INDIANA 7.5 MINUTE QUADRANGLE MAP, 1969, PHOTOREVISED 1986.  
 2. SOUTH BEND EAST, INDIANA 7.5 MINUTE QUADRANGLE MAP, 1992

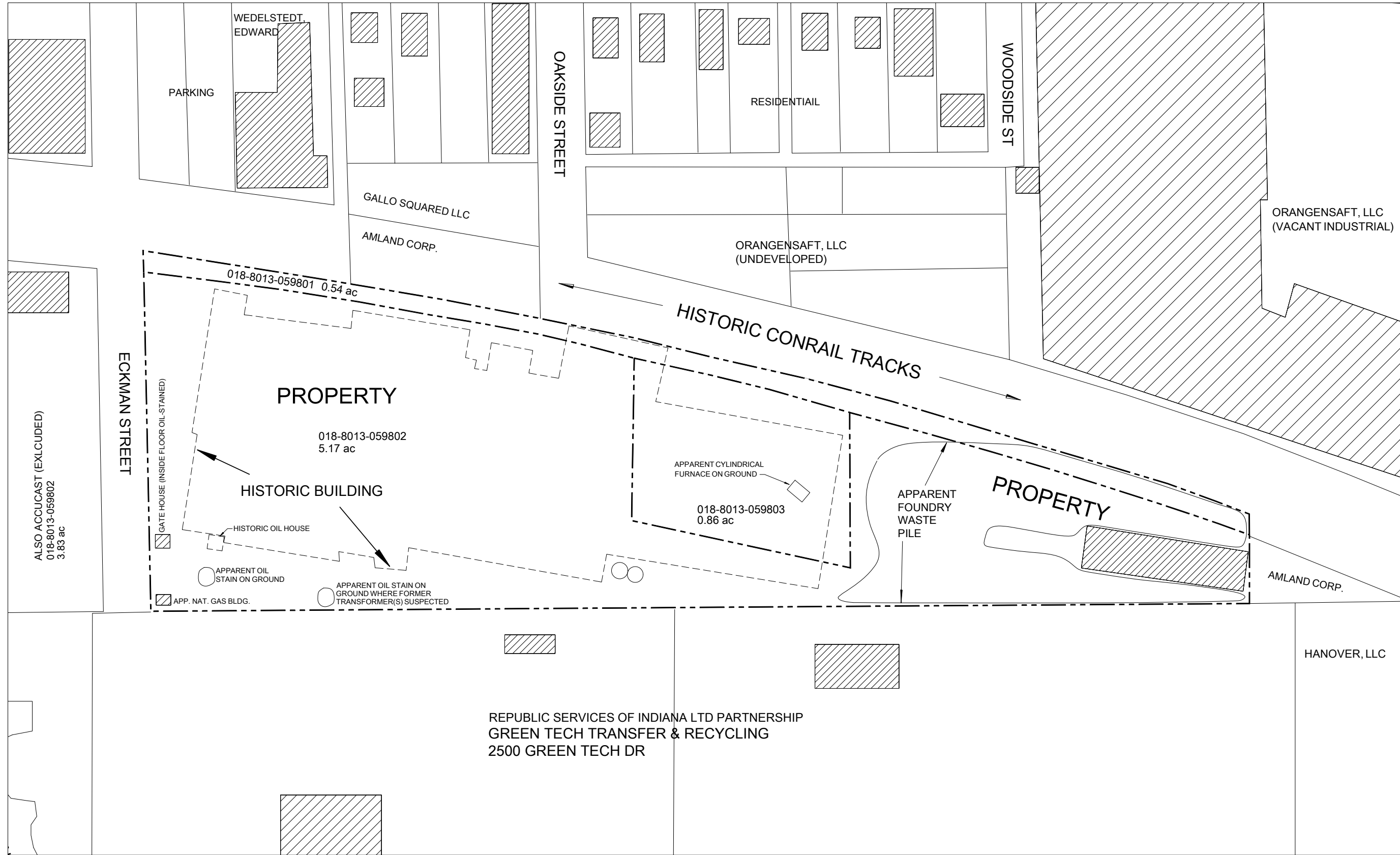
NO.	DATE	REVISION DESCRIPTION	BY
1			
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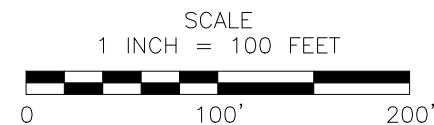
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DRAWN BY: SMS  
 DESIGNED BY: SMS  
 REVIEWED BY: AH  
 DATE: 04/22/2014  
 FILE: 2339-356-03-00  
 CAD: 2339-356-03 Figs.DWG



**EXPLANATION**

	PROPERTY BOUNDARY (APPROX.)
	PARCEL BOUNDARY (APPROX.)
	EXISTING BUILDING (TYP.)



**NOTE:**  
1. LINE WORK AND PARCEL BOUNDARIES TRACED FROM MACOGIS ArcIMS VIEWER MAP.  
2. SCALE IS APPROXIMATE.

NO.	DATE	REVISION DESCRIPTION	BY
1			
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DESIGNED BY:	SMS
REVIEWED BY:	AH
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FILE:	2339-356-03-00
CAD:	2339-356-03-Figs.DWG

**APPENDIX A**  
**GLOSSARY OF TERMS**

## GLOSSARY OF TERMS

This appendix provides definitions, descriptions of terms, and a list of acronyms for many of the words used in ASTM E 1527-13. These terms are an integral part of ASTM E 1527-13 and are critical to understanding ASTM E 1527-13 and its use.

### Definitions:

***Abandoned property*** – *Property* that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current *owner* to surrender rights to the *property*.

***Activity and use limitations***—Legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to *hazardous substances* or *petroleum products* in the soil, soil vapor, groundwater, and/or surface water on the *property*, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or *engineering controls*, are intended to prevent adverse impacts to individuals or populations that may be exposed to *hazardous substances* and *petroleum products* in the soil or ground water on the *property*. See Note 1.

NOTE 1 – The term *AUL* is taken from Guide E2091 to include both legal (that is, institutional) and physical (that is, engineering) controls within its scope. Other agencies, organizations, and jurisdictions may define or utilize these terms differently (for example, EPA and California do not include physical controls within their definitions of “*institutional controls*.” Department of Defense and International County/City Management Association use “Land Use Controls.” The term “land use restrictions” is used but not defined in the *Brownfields Amendments*).

***Actual knowledge*** – The knowledge actually possessed by an individual who is a real person, rather than an entity. *Actual knowledge* is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

***Adjoining properties*** – Any real *property* or properties the border of which is contiguous or partially contiguous with that of the *property*, or that would be contiguous or partially contiguous with that of the *property* but for a street, road, or other public thoroughfare separating them.

***Aerial photographs*** – Photographs taken from an aerial platform with sufficient resolution to allow identification of development and activities of areas encompassing the *property*. *Aerial photographs* are often available from government agencies or private collections unique to a local area. See 8.3.4.1 of this practice.

***All Appropriate Inquiries*** – That inquiry constituting “all appropriate *inquiries* into the previous ownership and uses of the *property* consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C. §9601(35)(B), that will qualify a party to a *commercial real estate transaction* for one of the threshold criteria for satisfying the LLPs to CERCLA liability (42 U.S.C. §9601(35)(A) & (B), §9607(b)(3), §9607(q); and §9607(r)), assuming compliance with other elements of the defense. See Appendix X1.

***Approximate Minimum Search Distance*** – The area for which records must be obtained and reviewed pursuant to Section 8 subject to the limitations provided in that section. This may include areas outside the *property* and shall be measured from the nearest *property* boundary. This term is used in lieu of radius to include irregularly shaped properties.

***Bona Fide Prospective Purchaser Liability Protection*** – A person may qualify as a bona fide prospective purchaser if, among other requirements, such person made “*all appropriate inquiries* into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practices.” Knowledge of contamination resulting from *all appropriate inquiries* would not generally preclude this liability protection. A person must make all appropriate *inquiries* on or before the date of purchase. The facility must have been purchased after January 11, 2002. See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

***Brownfields Amendments*** – Amendments to CERCLA pursuant to the Small Business Liability Relief and Brownfields Revitalization Act, Pub. L. No. 107-118 (2002), 42 U.S.C. §9601 et seq.

***Building Department Records*** – Those records of the local government in which the *property* is located indicating permission of the local government to construct, alter, or demolish improvements on the *property*. Often *building department records* are located in the building department of a municipality or county. See 8.3.4.7.

***Business Environmental Risk*** – A risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of *commercial real estate*, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of *business environmental risk* issues may



involve addressing one or more non-scope considerations, some of which are identified in Section 13.

***Commercial Real Estate*** – Any real property except a dwelling or property with no more than four dwelling units exclusively for residential use (except that a dwelling or property with no more than four dwelling units exclusively for residential use is included in this term when it has a commercial function, as in the building of such dwellings for profit). This term includes but is not limited to undeveloped real property and real property used for industrial, retail, office, agricultural, other commercial, medical or educational purposes; property used for residential purposes that has more than four residential dwelling units; and property with no more than four dwelling units for residential use when it has a commercial function, as in the building of such dwellings for profit.

***Commercial Real Estate Transaction*** – A transfer of title to or possession of real property or receipt of a security interest in real property, except that it does not include transfer of title to or possession of real property or the receipt of a security interest in real property with respect to an individual dwelling or building containing fewer than five dwelling units, nor does it include the purchase of a lot or lots to construct a dwelling for occupancy by a purchaser, but a commercial real estate transaction does include real property purchased or leased by persons or entities in the business of building or developing dwelling units.

***Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)***—The list of sites compiled by EPA that EPA has investigated, or is currently investigating, for potential hazardous substance contamination for possible inclusion on the National Priorities List.

***Construction debris***—Concrete, brick, asphalt, and other such building materials discarded in the construction of a building or other improvement to property.

***Contaminated public wells***—Public wells used for drinking water that have been designated by a government entity as contaminated by hazardous substances (for example, chlorinated solvents), or as having water unsafe to drink without treatment.

***Contiguous Property Owner Liability Protection*** – A person may qualify for the contiguous property owner liability protection if, among other requirements, such person owns real property that is contiguous to, and that is or may be contaminated by *hazardous substances* from other real property that is not owned by that person. Furthermore, such person conducted *all appropriate inquiries* at the time of acquisition of the property and did not know or have reason

to know that the property was or could be contaminated by a release or threatened release from the contiguous property. The all appropriate inquiries must not result in knowledge of contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the contiguous property owner liability protection. See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

*Controlled recognized environmental condition*—a *recognized environmental condition* resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*). (see Note 2.) A condition considered by the *environmental professional* to be a *controlled recognized environmental condition* shall be listed in the findings section of the *Phase I Environmental Site Assessment report*, and as a *recognized environmental condition* in the conclusions section of the *Phase I Environmental Site Assessment report*. (see Note 3.)

NOTE 2—For example, if a leaking underground storage tank has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria, this would be considered a controlled recognized environmental condition. The “control” is represented by the restriction that the property use remain commercial.

NOTE 3—A condition identified as a controlled recognized environmental condition does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.

***CORRACTS list***— A list maintained by EPA of hazardous waste treatment, storage or disposal facilities and other RCRA-regulated facilities (due to past interim status or storage of hazardous waste beyond 90 days) that have been notified by the U.S Environmental Protection Agency to undertake corrective action under RCRA. The CORRACTS list is a subset of the EPA database that manages RCRA data.

***Data Failure*** – A failure to achieve the historical research objectives in 8.3.1 through 8.3.2.2 even after reviewing the standard historical sources in 8.3.4.1 through 8.3.4.8 that are reasonably ascertainable and likely to be useful. Data failure is one type of data gap. See 8.3.2.3.

***Data Gap*** – A lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information. Data gaps may result

from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.). See 12.7.

*de minimis condition*—a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not *recognized environmental conditions* nor *controlled recognized environmental conditions*.

**Demolition debris**—Concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to property.

**Drum**—A container (typically, but not necessarily, holding 55 gal (208 L) of liquid) that may be used to store *hazardous substances* or *petroleum products*.

**Dry wells**—Underground areas where soil has been removed and replaced with pea gravel, coarse sand, or large rocks. Dry wells are used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and non-intentional), and wastewater disposal (often illegal).

**Due Diligence** – The process of inquiring into the environmental characteristics of a parcel of commercial real estate or other conditions, usually in connection with a commercial real estate transaction. The degree and kind of due diligence vary for different properties and differing purposes. See Appendix X1.

**Dwelling**—Structure or portion thereof used for residential habitation.

**Engineering controls (EC)**—Physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to hazardous substances or petroleum products in the soil or groundwater on the property. Engineering controls are a type of activity and use limitation (AUL).

**Environment**—Environment shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. § 9601(8)). For additional background information, see Legal Appendix (Appendix X1) to section XI. 1.1 “Releases and Threatened Release.”

**Environmental Compliance Audit** – The investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations. This

term should not be used to describe this practice, although an environmental compliance audit may include an environmental site assessment or, if prior audits are available, may be part of an environmental site assessment.

***Environmental lien***—A charge, security, or encumbrance upon title to a *property* to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of *hazardous substances* or *petroleum products* upon a *property*, including (but not limited to) liens imposed pursuant to CERCLA 42 U.S.C. §9607(1) & 9607(r) and similar state or local laws.

***Environmental Professional*** – A person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b). For the convenience of the reader, this section is reprinted in Appendix X2. The person may be an independent contractor or an employee of the user.

***Environmental Site Assessment*** – The process by which a person or entity seeks to determine if a particular parcel of real property (including improvements) is subject to *recognized environmental conditions*. At the option of the user, an *environmental site assessment* may include more inquiry than that constituting *all appropriate* inquiries or, if the user is not concerned about qualifying for the LLPs, less inquiry than that constituting *all appropriate* inquiries. An *environmental site assessment* is both different from and often less rigorous than an *environmental compliance audit*.

***ERNS list***—EPA’s emergency response notification system list of reported CERCLA *hazardous substance releases* or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such *releases* or spills are codified in 40 CFR Parts 302 and 355.

***Federal Register (FR)***—Publication of the United States government published daily (except for federal holidays and weekends) containing all proposed and final regulations and some other activities of the federal government. When regulations become final, they are included in the Code of Federal Regulations (CFR), as well as published in the *Federal Register*.

***Fill Dirt*** – Dirt, soil, sand, or other earth, that is obtained off-site, that is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real *property*. It does not include material that is used in limited quantities for normal landscaping activities.

***Fire insurance maps***—Maps produced for private fire insurance map companies that indicate uses of properties at specified dates and that encompass the *property*. These maps are often available at local libraries, historical societies, private resellers, or from the map companies who produced them.

***Good Faith*** – The absence of any intention to seek an unfair advantage or to defraud another party; an honest and sincere intention to fulfill one’s obligations in the conduct or transaction concerned.

***Hazardous substance***—A substance defined as *hazardous substance* pursuant to CERCLA 42 U.S.C. §9601(14), as interpreted by EPA regulations and the courts: “(A) any substance designated pursuant to section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to section 9602 of this title, (C) any *hazardous waste* having the characteristics identified under or listed pursuant to section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, (42 U.S.C. §6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§6901 *et seq.*) has been suspended by Act of Congress), (D) any toxic pollutant listed under section 1317(a) of Title 33, (E) any hazardous air pollutant listed under section 112 of the Clean Air Act (42 U.S.C. §7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof, which is not otherwise specifically listed or designated as a *hazardous substance* under subparagraphs (A) through (F) of this paragraph; the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).” (See Appendix X1.)

***Hazardous waste***—Any *hazardous waste* having the characteristics identified under or listed pursuant to section 3001 of RCRA, as amended, (42 U.S.C. §6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§6901-6992k) has been suspended by Act of Congress). RCRA is sometimes also identified as the Solid Waste Disposal Act. RCRA defines a *hazardous waste*, at 42 U.S.C. §6903, as: “a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may— (A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”

***Hazardous Waste/Contaminated Sites*** – Sites on which a *release* has occurred, or is suspected to have occurred, of any *hazardous substance, hazardous waste, or petroleum products*, and that *release* or suspected *release* has been reported to a government entity.

***Historical Recognized Environmental Condition*** – A past release, of any *hazardous substances or petroleum products* that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *property* to any required controls (for example, *property* use restrictions, activity and use limitations, institutional controls or engineering controls). Before calling the past *release* a *historical recognized environmental condition* the *environmental professional* must determine whether the past *release* is a *recognized environmental condition* at the time the Phase I Environmental Site Assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past *release* to be a *recognized environmental condition* at the time the Phase IESA is conducted, the condition shall be included in the conclusions section of the report as a *recognized environmental condition*.

***IC/EC Registries*** – Databases of institutional controls or engineering controls that may be maintained by a federal, state or local environmental agency for purposes of tracking sites that may contain residual contamination and AULs. The names for these may vary from program to program and state to state, and include terms such as Declaration of Environmental Use Restriction database (Arizona), list of “deed restrictions” (California), environmental real covenants list (Colorado), brownfields site list (Indiana, Missouri) and the Pennsylvania Activity and Use limitation (PA AUL) Registry..

***Innocent Landowner Defense*** – (42 U.S.C. §§9601(35) & 9607(b)(3)) – A person may qualify as one of three types of innocent landowners: (i) a person who “did not know and had no reason to know” that contamination existed on the property at the time the purchaser acquired the property; (ii) a government entity which acquired the property by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who “acquired the facility by inheritance or bequest.” To qualify for the innocent landowner defense, such person must have made *all appropriate inquiries* on or before the date of purchase. Furthermore, the *all appropriate inquiries* must not have resulted in knowledge of the contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the *innocent landowner defense*. See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

***Institutional controls (IC)*** — A legal or administrative restriction (for example, “deed restrictions,” restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. An *institutional control* is a type of *Activity or Use Limitation (AUL)*.

***Interviews*** – Those portions of this practice that are contained in Section 10 and 11 thereof and address questions to be asked of past and present *owners, operators, and occupants* of the *property* and questions to be asked of local government officials.

***Key site manager*** – The person identified by the *owner or operator* of a *property* as having good knowledge of the uses and physical characteristics of the *property*. See 10.5.1.

***Landfill***—A place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *solid waste disposal site* and is also known as a garbage dump, trash dump, or similar term.

***Landowner Liability Protections (LLPs)*** – *Landowner liability protections* under CERCLA; these protections include the *bona fide prospective purchaser liability protection, contiguous property owner liability protection, and innocent landowner defense* from CERCLA liability. See 42 U.S.C. §§9601(35)(A), 9601(40), 9607(b), 9607(q), 9607(r).

***Local government agencies*** – Those agencies of municipal or county government having jurisdiction over the *property*. Municipal and county government agencies include but are not limited to cities, parishes, townships, and similar entities.

***Local street directories***—Directories published by private (or sometimes government) sources that show ownership, occupancy, and/or use of sites by reference to street addresses. Often, *local street directories* are available at libraries or historical societies, and/or local municipal offices. See 8.3.4.6 of this practice.

***LUST sites*** – State lists of leaking *underground storage tank* sites. RCRA gives EPA and states, under cooperative agreements with EPA, authority to clean up *releases* from UST systems or require *owners and operators* to do so. (42 U.S.C. §6991b).

**Major occupants** – Those tenants, subtenants, or other persons or entities each of which uses at least 40% of the leasable area of the *property* or any anchor tenant when the *property* is a shopping center.

**Material safety data sheet (MSDS)**—Written or printed material concerning a *hazardous substance* which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA’s Hazard Communication Standard, 29 C.F.R. §1910.1200.

**Material threat** – A physically observable or *obvious* threat which is reasonably likely to lead to a *release* that, in the opinion of the *environmental professional*, is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank system that contains a *hazardous substance* and which shows evidence of damage. The damage would represent a *material threat* if it is deemed serious enough that it may cause or contribute to tank integrity failure with a *release* of contents to the environment.

Migrate/migration—For the purposes of this practice, “migrate” and Migration” refers to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface. See Note 4.

NOTE 4—Vapor migration in the subsurface is described in Guide E2600; however, nothing in this practice should be construed to require application of the Guide E2600 standard to achieve compliance with all appropriate inquiries.

**National Contingency Plan (NCP)**—The National Oil and Hazardous Substances Pollution Contingency Plan, found at 40 C.F.R. Part 300, that is the EPA’s blueprint on how *hazardous substances* are to be cleaned up pursuant to CERCLA.

**National Priorities List (NPL)**—List compiled by the EPA, pursuant to CERCLA 42 U.S.C. §9605(a)(8)(B) of properties with the highest priority for cleanup pursuant to EPA’s Hazard Ranking System. See 40 C.F.R. Part 300.

**Obvious** – That which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while visually or physically observing the *property*.

**Occupants**—Those tenants, subtenants, or other persons or entities using the *property* or a portion of the *property*.

**Operator** – The person responsible for the overall operation of a facility.



**Other historical sources** – Any source or sources other than those designated in 8.3.4.1 through 8.3.4.8 that are credible to a reasonable person and that identify past uses of the *property*. The term includes, but is not limited to: miscellaneous maps, newspaper archives, internet sites, community organizations, local libraries, historical societies, current *owners* or *occupants* of neighboring properties, and records in the files and/or personal knowledge of the *property owner* and/or *occupants*. See 8.3.4.9.

**Owner**—Generally the fee owner of record for the *property*.

**Petroleum exclusion**—The exclusion from CERCLA liability provided in 42 U.S.C. §9601(14), as interpreted by the courts and EPA: “The term (*hazardous substance*) does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a *hazardous substance* under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).”

**Petroleum products**—Those substances included within the meaning of the *petroleum exclusion* to CERCLA, 42 U.S.C. §9601(14), as interpreted by the courts and EPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a *hazardous substance* under Subparagraphs (A) through (F) of 42 U.S.C. §9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to *Standard Definitions of Petroleum Statistics*.<sup>1</sup>)

**Phase I Environmental Site Assessment**—The process described in this practice.

**Physical setting sources** – Sources that provide information about the geologic, hydrogeologic, hydrologic, or topographic characteristics of a property. See 8.2.4.

**Pits, ponds, or lagoons**—Man-made or natural depressions in a ground surface that are likely to hold liquids or sludge containing *hazardous substances* or *petroleum products*. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond, or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an *obvious wastewater* discharge.

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<sup>1</sup> *Standard Definitions of Petroleum Statistics*, American Petroleum Institute, Fourth Edition, 1988.

***Practically reviewable*** – Information that is *practically reviewable* means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the *property* without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the *user* can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the *property* or a geographic area in which the *property* is located are not generally *practically reviewable*. Most databases of public records are *practically reviewable* if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally *practically reviewable*. Listings in publicly available records which do not have adequate address information to be located geographically are not generally considered *practically reviewable*. For large databases with numerous records (such as RCRA hazardous waste generators and registered *underground storage tanks*), the records are not *practically reviewable* unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be *practically reviewable*. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the *property*, it is not *practically reviewable*.

***Property***—The real *property* that is the subject of the *environmental site assessment* described in this practice. Real *property* includes buildings and other fixtures and improvements located on the *property* and affixed to the land.

***Property tax files***—The files kept for *property* tax purposes by the local jurisdiction where the *property* is located and includes records of past ownership, appraisals, maps, sketches, photos, or other information that is *reasonably ascertainable* and pertaining to the *property*. See 8.3.4.3

***Publicly available*** – Information that is *publicly available* means that the source of the information allows access to the information by anyone upon request.

***RCRA generators***—Those persons or entities that generate *hazardous waste*, as defined and regulated by RCRA.

***RCRA generators list***—List kept by the EPA of those persons or entities that generate *hazardous wastes* as defined and regulated by RCRA.

**RCRA TSD facilities**—Those facilities on which treatment, storage, and/or disposal of *hazardous wastes* takes place, as defined and regulated by RCRA.

**RCRA TSD facilities list**—List kept by the EPA of those facilities at which treatment, storage, and/or disposal of *hazardous wastes* takes place, as defined and regulated by RCRA.

**Reasonable time and cost**—Information that is obtainable within reasonable time and cost constraints means that the information will be provided by the source within 20 calendar days of receiving a written, telephone, or in-person request at no more than a nominal cost intended to cover the source's cost of retrieving and duplicating the information. Information that can only be reviewed by a visit to the source is reasonably ascertainable if the visit is permitted by the source within 20 days of request.

**Reasonably ascertainable** – Information that is (1) *publicly available*, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable.

**Recognized environmental conditions** – the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property* (1) due to release to the environment; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a material threat of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.

**Recorded land title records**—Records of historical fee ownership, which may include leases, land contracts, and AULs on or of the *property* recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the *property* is located. (Often such records are kept by a municipal or county recorder or clerk.) Such records may be obtained from title companies or directly from the local government agency. Information about the title to the *property* that is recorded in a U.S. district court or any place other than where land title records are, by law or custom, recorded for the local jurisdiction in which the *property* is located, are not considered part of *recorded land title records*. See 8.3.4.4.

**Records of emergency release notifications EPCRA** — Requires *operators* of facilities to notify their local emergency planning committee (as defined in EPCRA) and state emergency response commission (as defined in EPCRA) of any *release* beyond the facility's boundary of any reportable quantity of any extremely *hazardous substance*. Often the local fire department is the local emergency planning committee. Records of such notifications are “Records of Emergency Release Notifications” (42 U.S.C. 11004).

**Records review** – That part that is contained in Section 8 of this practice that addresses which records shall or may be reviewed.

**Release**—A *release* of any *hazardous substance* or *petroleum product* shall have the same meaning as the definition of “release” in CERCLA 42 U.S.C. § 9601(22)). For additional background information, see Legal Appendix (Appendix X1) to X1.1.1 “Releases and Threatened Release.”

**Report**—The written *report* prepared by the *environmental professional* and constituting part of a “*Phase I Environmental Site Assessment*,” as required by this practice.

**Site reconnaissance** – That part that is contained in Section 9 of this practice and addressed what should be done in connection with the *site visit*. The *site reconnaissance* includes, but is not limited to, the *site visit* done in connection with such a *Phase I Environmental Site Assessment*.

**Site visit** – The visit to the property during which observations are made constituting the *site reconnaissance* section of this practice.

**Solid waste disposal site**—A place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *landfill* and is also known as a garbage dump, trash dump, or similar term.

**Solvent**—A chemical compound that is capable of dissolving another substance and may itself be a *hazardous substance*, used in a number of manufacturing/industrial processes including, but not limited to, the manufacture of paints and coatings for industrial and household purposes, equipment clean-up, and surface degreasing in metal fabricating industries.

**Standard environmental record sources** – Those records specified in 8.2.1.

**Standard historical sources** – Those sources of information about the history of uses of *property* specified in 8.3.4.

**Standard physical setting source** – A current *USGS 7.5 Minute Topographic Map* (if any) showing the area on which the property is located. See 8.2.4.

**Standard practice** – The activities set forth in this practice.

**Standard sources** – Sources of environmental, physical setting, or historical records specified in Section 8 of this practice.

**State registered USTs**—State lists of *underground storage tanks* required to be registered under Subtitle I, Section 9002 of RCRA.

**Sump**—A pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.

**TSD facility**—Treatment, storage, or disposal facility (see *RCRA TSD facilities*).

**Underground injection** – The emplacement or discharge of fluids into the subsurface by means of a well, improved sinkhole, sewage drain hole, subsurface fluid distribution system or other system, or groundwater point source.

**Underground storage tank (UST)**—Any tank, including underground piping connected to the tank, that is or has been used to contain *hazardous substances* or *petroleum products* and the volume of which is 10% or more beneath the surface of the ground.

**User** – The party seeking to use Practice E 1527 to complete an *environmental site assessment* of the *property*. A user may include, without limitation, a potential purchaser of *property*, a potential tenant of *property*, an *owner of property*, a lender, or a *property manager*. The *user* has specific obligations for completing a successful application of this practice outlined in Section 6.

**USGS 7.5 Minute Topographic Map**—The map (if any) available from or produced by the United States Geological Survey, entitled “*USGS 7.5 Minute Topographic Map*,” and showing the *property*.

**Visually and/or physically observed** – During a *site visit* pursuant to this practice, this term means observations made by vision while walking through a *property* and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term “walking through” is not meant to imply that disabled person who cannot physically walk may not conduct a *site visit*; they may do so by the means at their disposal for moving through the *property* and the structures located on it.

**Wastewater**—Water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. *Wastewater* does not include water originating on or passing through or adjacent to a site, such as stormwater flows, that has not been used in industrial or manufacturing processes, has not been combined with sewage, or is not directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.

**Zoning/land use records**—Those records of the local government in which the *property* is located, indicating the uses permitted by the local government in particular zones within its jurisdiction. The records may consist of maps and/or written records. They are often located in the planning department of a municipality or county. See 8.3.4.8

**Acronyms:**

**AULs** – Activity and Use Limitations.

**CERCLA**—Comprehensive Environmental Response, Compensation and Liability Act of 1980 (as amended, 42 U.S.C. §§9601 *et seq.*).

**CERCLIS**—Comprehensive Environmental Response, Compensation and Liability Information System (maintained by EPA).

**CFR**—Code of Federal Regulations.

**CORRACTS**—Facilities subject to corrective action under RCRA.

**EPA**—United States Environmental Protection Agency.

**EPCRA**—Emergency Planning and Community Right to Know Act (also known as SARA Title III), 42 U.S.C. §§11001-11050 *et seq.*).

**ERNS**—Emergency response notification system.

**ESA**—Environmental site assessment (different than an *environmental compliance audit*,3.2.27).

**FOIA**—U.S. Freedom of Information Act (5 U.S.C. 552 *et seq.*).

**FR**—Federal Register.

**ICs** – Institutional Controls.

**LLP** – Landowner Liability Protections under the Brownfields Amendments.

**LUST**—Leaking Underground Storage Tank.

**MSDS**—Material Safety Data Sheet.

**NCP**—National Contingency Plan.

***NFRAP*** – Former CERCLIS sites where no further remedial action is planned under CERCLA.

***NPDES*** – National Pollutant Discharge Elimination System.

***NPL*** – National Priorities List.

***PCBs*** – Polychlorinated biphenyls.

***PRP*** – Potentially Responsible Party (pursuant to CERCLA 42 U.S.C. §9607(a)).

***RCRA*** – Resource Conservation and Recovery Act (as amended, 42 U.S.C. §§6901 *et seq.*).

***SARA*** – Superfund Amendments and Reauthorization Act of 1986 (amendment to CERCLA).

***TSDF*** – *Hazardous waste* treatment, storage or disposal facility.

***USC*** – United States Code.

***USGS*** – United States Geological Survey.

***UST*** – Underground Storage Tank.

**APPENDIX B**  
**USER-PROVIDED INFORMATION**





Indiana Brownfields Program • 100 North Senate Avenue, Room 1275 • Indianapolis, IN 46204

[www.brownfields.in.gov](http://www.brownfields.in.gov)

Phone: (317) 233.1504 • Fax: (317) 234.1338

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## MEMORANDUM

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**TO:** CHRIS BONNIWELL, WILCOX ENVIRONMENTAL.; ROBERT WALKER, BETH GRIGSBY, CARDNO ATC.; BRIAN HARRINGTON, KERAMIDA INC.; SARAH RUBIN, URS CORPORATION; STEVEN STANFORD, WEAVER BOOS CONSULTANTS

**FROM:** ANDREA ROBERTSON HABECK

**SUBJECT:** BID PROPOSAL FOR ENVIRONMENTAL ASSESSMENT SERVICES, FORMER ACCUCAST/SIBLEY FOUNDRY  
BFD SITE # 4121102

**DATE:** 1/17/2014

**CC:** SARA WESTRICK

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### Introduction

The Indiana Finance Authority, through the Indiana Brownfields Program (Program), is soliciting proposals for environmental services (Proposal) consisting of a Phase I Environmental Site Assessment (Phase I) and Phase II investigation (Phase II) to be performed at the Former Accucast Technology LLC/Sibley Machine & Foundry facility located at 220 W Eckman Street in South Bend (Site). This Request for Proposals (RFP) provides specifications and requirements for the five (5) environmental consulting firms selected in September 2007 under a Request for Qualifications issued by the Program to complete a Bid Proposal with itemized cost estimates for services.

### Project History and Site Description

The overall objective is to complete Phase I and Phase II environmental investigations at the Site for its intended future commercial use. The 7.0-acre Site operated as Sibley Machine & Foundry Corporation from 1874 to July 2004, manufacturing castings for heavy equipment used in off-road industries. On July 16, 2004, the facility was purchased by Accucast. Accucast shut down the foundry operations and ceased paying property taxes. The Site was sold at tax sale and the purchaser demolished and scrapped the building, never took title, and abandoned the property. Piles of rubble/foundry sand, a few pieces of equipment, and concrete slabs are still present at the Site.

The Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC) contains historical documentation of the Site. Below is a list of some of the documents contained in the VFC for the Site.

<a href="#">P view</a>   <a href="#">process</a>	23716507	07/27/1989	LUST	Screening/Assessment
<a href="#">P view</a>   <a href="#">process</a>	40729990	09/10/2003	Site Investigation	Screening/Assessment
<a href="#">P view</a>   <a href="#">process</a>	41413560	09/18/2003	Site Investigation	Screening/Assessment
<a href="#">P view</a>   <a href="#">process</a>	47791404	06/05/2003	Site Investigation	Screening/Assessment
<a href="#">P view</a>   <a href="#">process</a>	47898781	02/01/1999	Site Investigation	Screening/Assessment
<a href="#">P view</a>   <a href="#">process</a>	48005202	12/01/1995	Site Investigation	Screening/Assessment
<a href="#">P view</a>   <a href="#">process</a>	36251477	01/28/2008	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	36251949	10/25/2004	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	36253021	02/27/2007	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	44177364	02/27/2007	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	44182967	10/19/2007	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	44185447	05/09/2006	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	44185571	05/22/2007	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	44277619	05/03/2007	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	44278386	04/28/2006	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	44280056	10/25/2004	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	58677094	04/21/2008	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	58677290	04/08/2008	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	58694184	07/14/2008	State Cleanup	Site Characterization
<a href="#">P view</a>   <a href="#">process</a>	51592207	09/29/2009	State Cleanup	Site Closure
<a href="#">P view</a>   <a href="#">process</a>	29202086	03/07/2006	State Cleanup	Site Decision
<a href="#">P view</a>   <a href="#">process</a>	36251346	10/19/2007	State Cleanup	Monitoring
<a href="#">P view</a>   <a href="#">process</a>	36253020	05/22/2007	State Cleanup	Monitoring
<a href="#">P view</a>   <a href="#">process</a>	47874880	04/27/2009	State Cleanup	Monitoring

## Scope of Work

The overall objective of this project is to complete Phase I and Phase II environmental site assessments to determine the extent of the environmental impacts at the Site. The Proposal should be divided into two (2) parts – Part A and Part B – and include a narrative for and costs associated with performing the tasks outlined in each.

### Part A - Phase I Environmental Site Assessment

- Complete a Phase I according to ASTM 1527-13 and All Appropriate Inquiry.
- Complete a Site-specific Sampling and Analysis Plan (SAP) and Health & Safety Plan (HASP) for Program and United States Environmental Protection Agency (U.S. EPA) approval based on the recognized environmental conditions (RECs) identified in the Phase I.

### Part B - Phase II Site Investigation

- Conduct up to twenty (20) each of surface and subsurface soil samples as outlined in the SAP and analyze for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals.
- Conduct up to ten (10) groundwater samples for VOCs, SVOCs, and metals.

- Upon installation of the temporary monitoring wells, each well should be developed and surveyed to determine groundwater flow direction and gradient. The wells should be gauged, purged and sampled according to IDEM guidance.
- Collect groundwater samples using low-flow sampling techniques.
- Complete a Phase II report documenting all results and submit to the Program for review.

All work must be approved by the Program *prior* to implementation and be consistent with appropriate state and federal guidelines, if applicable.

### **Form of Proposal**

When responding to this RFP, please provide the following:

- Cover letter stating interest in the project with signature of duly authorized principal;
- Brief narrative description demonstrating your company's understanding of the environmental issues at the Site and the project tasks;
- A copy of the Cost Analysis Spreadsheet detailing costs to complete all Site work; and
- Timeline for implementing and completing the required tasks.

### **Deliverables**

The Proposal should provide a brief description of any documents that are anticipated to be deliverables for the project. At a minimum, the following project deliverables are expected:

- Phase I Report
- SAP/HASP
- Phase II Report

This RFP requires three (3) black and white copies of the Phase I and Phase II reports in print and three (3) black and white copies in electronic pdf format on compact disc at the completion of each project phase. The reports must be printed on recycled paper and double-sided. All maps and tables must be printed legibly in black and white. One print copy and electronic copy of each document should be sent to the Program, Jan Pels of U.S. EPA, and Christopher Dressel of the City of South Bend. One electronic copy of the SAP/HASP is required to be submitted to the Program for review prior to initiation of field work as outlined in the project timeline.

### **Project Contact**

Questions regarding this RFP and all document submittals shall be directed to:

Andrea Robertson Habeck  
Indiana Brownfields Program  
100 North Senate Avenue, Room 1275  
Indianapolis, IN 46204  
(317) 234.0968  
[aroberts@ifa.in.gov](mailto:aroberts@ifa.in.gov)

## Project Timeline and Events

Bid request released:	January 17, 2014
Bid response deadline:	January 29, 2014, 12:00 noon
Consultant selected:	January 31, 2014
Contract transmitted to consultant:	January 31, 2014
Signed contract with access agreements received:	February 5, 2014

### Part A

Phase I initiated:	February 7, 2014
SAP and HASP due to Program:	February 26, 2014
Phase I report due to Program:	March 7, 2014

### Part B

Phase II field work initiated:	March 22, 2014
Phase II report and final invoice due:	May 15, 2014

Work shall not begin until a contract is fully executed by all parties and consultant receives a notice to proceed from the Program.

## Directions for Submitting Proposals

Proposals should be submitted by email to Andrea Robertson Habeck at [aroberts@ifa.in.gov](mailto:aroberts@ifa.in.gov) or on a compact disc to:

Andrea Robertson Habeck  
Indiana Brownfields Program  
100 North Senate Avenue, Room 1275  
Indianapolis, IN 46204

Proposals must be received by the Program on or before **12:00 p.m. (Noon) EST on January 29, 2014** in order to be considered. Late submittals, faxed or hard copy proposals will not be accepted.

Evaluation of submittals will be based first on cost. Although costs are given primary and significant consideration during evaluation, each proposal will also be evaluated relative to the ability of the respondent to accomplish the required services and to perform the required work within the project period. The Program reserves the right to not select any proposal or to not select the lowest cost bid based on its evaluation of the proposals submitted. The Program reserves the right to reject any bids which do not conform to the terms and conditions described in the specification.

The scope of work contained in this RFP will be funded with a combination of federal 128(a) and Supplemental Environmental Project funds. If U.S. EPA does not approve the Site for 128(a) funding, the Program reserves the right to modify the scope of work and/or activities that will be funded.

# WEAVER BOOS CONSULTANTS

## Phase I Environmental Site Assessment

### User-Provided Information Questionnaire

*This questionnaire is based upon Section X3 of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13).*

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In order to qualify for one of the Landowner Liability Protections (LLPs) offered by 40 CFR 312, the user must provide the available information requested in numbers 1 through 6, following.

In addition, while the information requested in numbers 7 through 19 is not required to qualify for one of the LLPs, it is typically necessary to assist us in completing the Phase I ESA. Lack of this requested information could result in data gaps within the Phase I ESA. Weaver Boos requests that the respondent provide the requested information and include comments where applicable, such as the information is not available or unknown, and sign the last page of the questionnaire. This affirms that the respondent has answered all questions to the best of the respondent's actual knowledge and in good faith.

1. **Environmental liens that are filed or recorded against the Property (40 CFR 312.25).** Did a search of recorded land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the property under federal, tribal, state or local law?

The City of South Bend is not aware of any environmental  
liens against property.

2. **Activity and use limitations that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26).** Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the Property and/or have been filed or recorded against the property under federal, tribal, state or local law?

The City of South Bend is not aware of any land use restrictions  
or institutional controls.

**WEAVER BOOS CONSULTANTS**  
**Phase I Environmental Site Assessment**  
**User-Provided Information Questionnaire**

*This questionnaire is based upon Section X3 of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13).*

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3. **Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR Part 312.28).** Do you have any specialized knowledge or experience related to the Property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Not applicable

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4. **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).** Does the purchase price being paid for the Property reflect fair market value of the Property? If there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the Property?

Not Applicable

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5. **Commonly known or reasonably ascertainable information about the Property (40 CFR 312.30).** Are you aware of commonly known or reasonably ascertainable information about the Property that would help the environmental professional to identify conditions indicative of a release or threatened releases? For example,

- a) Do you know the past uses of the Property or adjoining properties?

Sibley Foundry

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# WEAVER BOOS CONSULTANTS

## Phase I Environmental Site Assessment

### User-Provided Information Questionnaire

*This questionnaire is based upon Section X3 of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13).*

- b) Do you know the specific chemicals that are present or once were present at the Property or adjoining properties?

No.

- c) Do you know of spills or chemical releases that have taken place at the Property or adjoining properties?

No.

- d) Do you know of any environmental cleanups that have taken place at the Property or adjoining properties?

On adjoining property to the East there was EPA grant to clean sludge from lagoon. On property to the SE, ongoing groundwater cleanup of airplane fuel on Hanover site through IDEM.

6. **The degree of obviousness of the presence or likely presence of contamination at the Property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).** Based on your knowledge and experience related to the Property are there any obvious indicators that point to the presence or likely presence of releases at the Property?

Yes. Current indicators include the presence of foundry sand and other remnants of property. Past indicators include operations affiliated with past use of property as a manufacturing site.

**WEAVER BOOS CONSULTANTS**  
**Phase I Environmental Site Assessment**  
**User-Provided Information Questionnaire**

*This questionnaire is based upon Section X3 of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13).*

---

7. The reason why this Phase I ESA is required.

IDEM Action deemed necessary due to potential contaminants  
and need to determine extent of contamination.

8. The type of property and type of property transaction (e.g., purchase, exchange, etc.).

Not Applicable

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9. Complete and correct address for the Property (a map or other documentation showing the property location and boundaries is helpful).

320 W. Eckman

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10. The scope of services desired for the Phase I (including whether any parties to the property transaction may have a required standard scope of services on whether any considerations beyond the requirements of ASTM E 1527-13 are to be considered).

Standard scope of services.

---

11. Identification of all parties who will rely on the Phase I report.

IDEM, City of South Bend, St. Joseph County Dept. of Health,  
potential, yet identified, parties interested in the site.



# WEAVER BOOS CONSULTANTS

## Phase I Environmental Site Assessment

### User-Provided Information Questionnaire

*This questionnaire is based upon Section X3 of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13).*

12. Identification of the site contact and how the contact can be reached. (i.e., the key site manager, who will provide Weaver Boos with access to the Property and who possesses a good working knowledge of the uses and physical characteristics of the Property and its history).

IDEM - Andrea Robertson Habeck - Sr. Project Manager

317-234-0968 aroberts@ipa.IN.gov

City of South Bend - Chris Dressel - planner 574-235-5847 cdressel@

SouthBend.IN  
-gov

13. Any special terms and conditions (beyond those attached to this Proposal) which must be agreed upon by the environmental professional.

Not Applicable

14. Any other knowledge or experience with the Property that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondences, etc., concerning the Property and its environmental condition).

Please ~~reference~~ reference IDEM resources.

15. A legal description of the Property and a plat of survey showing the configuration and boundaries of the Property.

018-8013-~~059802~~  
059802 Tract SW, NW + W of Railroad containing 4.13 acres on south side of West Eckman Street and 3.75 acres North side of West Eckman St. Section 24-37-2e

18-8013-059802 Parcel of Land beginning North 666.35 ft + East 54 ft of SW corner NW 1/4 Section 24-37-2e

Page 5 of 7

**WEAVER  
BOOS  
CONSULTANTS**

18-8013-059802 Parcel of railroad highway Northwest 1/4 beginning 77.2' East of SW corner NW 1/4 containing .566 acres more or less section 24 37 2e

**WEAVER BOOS CONSULTANTS**

**Phase I Environmental Site Assessment**

**User-Provided Information Questionnaire**

*This questionnaire is based upon Section X3 of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13).*

16. The name of the owner of record of the Property.

AccuCast Technology, LLC

17. All known parcel index numbers (PINs or tax ID numbers) for the Property.

018-8013-059801, 018-8013-059802, 018-8013-059803

18. Any and all known past owners of the Property including time period of ownership and use of the Property during ownership. Please include any contact information that you may have.

AccuCast Technology, LLC

Steven Morehead

2220 Kensington Blvd.

Joseph Seher 1520 Dearborn Pkwy  
Chicago, IL 60610

Fort Wayne, IN 46805

312-337-7920 sehjas@msa.com

19. Any and all known past occupants of the Property including time period of occupancy and use of the Property during occupancy. Please include any contact information that you may have.

Sibley Foundry 1910-1998

General Castings 1998-2002

AccuCast 2004-2009

} Foundry

See above for contact contacts.

**WEAVER BOOS CONSULTANTS**

**Phase I Environmental Site Assessment**

**User-Provided Information Questionnaire**

*This questionnaire is based upon Section X3 of the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (E 1527-13).*

---

**The respondent of the questionnaire must complete and sign the following statement.**

This questionnaire was completed by:

Chris Oressel  
Name:

Planner  
Title:

City of South Bend Community Investment  
Firm:

227 W. Jefferson Blvd. South Bend, IN 46601  
Address:

574-235-5847  
Phone Number:

5/23/14  
Date:

The respondent represents that to the best of the respondent's knowledge the above statements and facts are true and correct and to the best of the respondent's actual knowledge, no material facts have been suppressed or misstated.

Christopher O. Oressel  
Print Name (Respondent):

[Signature]  
Signature (Respondent):

5/23/14  
Date:



# Advanced Searches

Environmental Information Specialists



## ENVIRONMENTAL LIEN SEARCH

**(Environmental Liens, Environmental Restrictions on Current Deed, Activity & Use Limitations, Illinois and United States Environmental Protection Agency Documents, Environmental Disclosures)**

**File Number:** L6-3455

**Property Address:** 220 West Eckman Street, South Bend, Indiana

**Permanent Index Number:** 018-8013-059801, 018-8013-059802, 018-8013-059803

**Search Date:** May 16, 2014

### BRIEF LEGAL DESCRIPTION

A PART OF THE NORTHWEST ¼ OF SECTION 24, TOWNSHIP 37 NORTH, RANGE 2 EAST, IN THE CITY OF SOUTH BEND, COUNTY OF ST. JOSEPH, INDIANA.

DOCUMENT	GRANTOR	GRANTEE	INSTRUMENT	DATE RECORDED
0712390	Joseph Seher	AccuCast Technology, LLC	QC	3-20-07

**No Environmental Liens were found on this property.  
No deed restrictions were found on this property.**

This search meets or exceeds the standards set forth by AAI and ASTM 1527-13.

This search is of the land described herein by the property index number or a street address furnished by the applicant. Advanced Searches assumes no liability for the accuracy of the property index number or street address so furnished.

Furthermore, this search is not a title insurance policy, guarantee, or opinion of title and should not be used as such. This search is of all said properly posted recorded documents in the recorder of deeds office in the county of the described property. While Advanced Searches takes utmost care in recording accurate data, it assumes no liability of mis-posted documents, documents posted to other associated permanent index numbers, or in the accuracy of public recorded property data.

**AUL=activity & use limitation D=deed DinT=deed in trust ED=environmental disclosure  
EL=environmental lien ExD=executor's deed  
QC=quit claim ShD=sheriff's deed TsD=trustee's deed WD=warranty deed**

Prepared By  
Advanced Searches • 6026 S. Lake Shore Drive • Cary, Illinois 60013  
Phone: 847.921.1022 • Fax: 847.639.6077

**APPENDIX C**  
**PHOTOGRAPHIC DOCUMENTATION**



#1: A sample of foundry sand found near the eastern side of the Property.



#2: Four large pillars at the eastern edge of the Property with debris piles in the background.



#3: Twisted rebar jutting out of foundry sand. This suggests there is more demolition debris buried beneath the sand.



#4: A typical debris pile near the center of the Property, looking west toward Green Tech.





#5: One of the large debris ridges east of the warehouse. The reddish debris is a mixture of molds and clinkers (iron oxide waste).



#6: Illustration of the height of the ridge. This picture looks toward the southwest, toward the warehouse. The building is completely obscured by the ridge.



#7: The backside of warehouse, at the southernmost edge of the Property.



#8: Photo taken from the highest point of the Property, facing north. The extent of the debris piles and the cylindrical furnace are highlighted here.



#9: Photo taken from the highest point of the Property, facing west. The bags of foundry sand and wooden pallets are visible in the foreground. Green Tech is visible in the background. The aboveground storage tank used by Green Tech is prominently visible in this photograph.



#10: Photo taken from the highest point of the Property, facing southwest. Green Tech is visible in the background, and the warehouse is visible in the foreground.



#11: Photo taken from the highest point of the Property, facing southeast. The large building was formerly used for manufacturing steel.



#12: North entrance of the warehouse. The door on the right is blocked by rubble and seems to have fallen in disuse long ago.



#13: Wooden pallets and old equipment in the warehouse.



#14: Objects that appear to be molds or prototypes used in the casting process.



#15: Bags at the western edge of the Property that contain sand seemingly darker than found sand found elsewhere on the Property.



#16: A pile of wooden pallets, covering the suspected location of a monitoring well installed by a previous investigator.



#17: One of the uncovered manholes, filled with garbage and water.



#18: One of the suspected wells at the western edge of the former foundry building. This pipe was covered with a slab of concrete (being held up).



#19: This large circular structure was found at the south of the historical foundry building. Its function is unknown.



#20: The cylindrical object, suspected to be a furnace.





#21: This photo provides a scale for the furnace's size.



#22: The red object is a metal cargo dolly/hand cart. It is unclear who placed it there. The left side of the porthole appears to be refractory brick, while the right side appears to be coated with solidified slag.



#23: Another side of the furnace, highlighting the spout.



#24: Close-up photograph of the spout.



#25: This depicts the backside of the furnace, opposite #22. The multicolored material spilling out is suspected to be chunks of solidified slag or flux.



#26: Water-filled pit behind the furnace. The plank being held was used to test the depth of the pool. It was at least four feet deep.



#27: Derelict utility poles at the western edge of the Property. The oily stain can be seen at the right of the photo.



#28: As shown in this photo, the oily stain is sizeable and appears to flow out from a spot between two old utility poles.



#29: One of several debris-filled pits found throughout the floor of the former foundry building.



#30: A set of pillars leading to the gatehouse (blue building to the right with a roof). The old gas house is the blue building to the left with white pipes. Both buildings are at the northwest of the Property.



#31: Oil stain at the northwest of the Property, close to the gas house. The tarp-and-sandbag area corresponds to the approximate location of another groundwater monitoring well installed by a previous investigator.



#32: Interior of the dilapidated gas house.



#33: Exterior of the gate house.



#34: Interior of the gate house. Two electrical fuses can be seen in this picture. The floor was entirely stained with a black oily substance similar to elsewhere on the Property. The only non-stained spot can be seen at the far right of the picture.



#35: This depression at the north of the former foundry building is full of demolition debris.



#36: This photo shows the other pipe at the northern edge of the former foundry building.





#37: Close-up of the pipe depicted in photo #36.



#38: Loading dock located at the northeastern corner of the Property.

**APPENDIX D**  
**REGULATORY RECORDS DOCUMENTATION**

# Advanced Searches

Environmental Information Specialists



## ENVIRONMENTAL LIEN SEARCH

**(Environmental Liens, Environmental Restrictions on Current Deed, Activity & Use Limitations, Illinois and United States Environmental Protection Agency Documents, Environmental Disclosures)**

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**Permanent Index Number:** 018-8013-059801, 018-8013-059802, 018-8013-059803

**Search Date:** May 16, 2014

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DOCUMENT	GRANTOR	GRANTEE	INSTRUMENT	DATE RECORDED
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Furthermore, this search is not a title insurance policy, guarantee, or opinion of title and should not be used as such. This search is of all said properly posted recorded documents in the recorder of deeds office in the county of the described property. While Advanced Searches takes utmost care in recording accurate data, it assumes no liability of mis-posted documents, documents posted to other associated permanent index numbers, or in the accuracy of public recorded property data.

**AUL=activity & use limitation D=deed DinT=deed in trust ED=environmental disclosure  
EL=environmental lien ExD=executor's deed  
QC=quit claim ShD=sheriff's deed TsD=trustee's deed WD=warranty deed**

Prepared By  
Advanced Searches • 6026 S. Lake Shore Drive • Cary, Illinois 60013  
Phone: 847.921.1022 • Fax: 847.639.6077

**Former Sibley/Accucast Site**

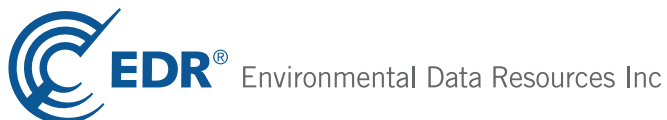
220 W Eckman St.

South Bend, IN 46614

Inquiry Number: 3880645.2s

March 14, 2014

# The EDR Radius Map™ Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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## GEOCHECK ADDENDUM

GeoCheck - Not Requested

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

220 W ECKMAN ST.  
SOUTH BEND, IN 46614

#### COORDINATES

Latitude (North): 41.6457000 - 41° 38' 44.52"  
Longitude (West): 86.2531000 - 86° 15' 11.16"  
Universal Transverse Mercator: Zone 16  
UTM X (Meters): 562200.3  
UTM Y (Meters): 4610496.5  
Elevation: 758 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 41086-F3 SOUTH BEND WEST, IN  
Most Recent Revision: 1986  
  
East Map: 41086-F2 SOUTH BEND EAST, IN  
Most Recent Revision: 1995

### AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year: 2012  
Source: USDA

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

<u>Site</u>	<u>Database(s)</u>	<u>EPA ID</u>
SOUTH BEND ACQUISITION CORP 220 W ECKMAN ST SOUTH BEND, IN 46614	LUST Description: NFA-Unconditional Closure  UST RGA LUST	N/A
220 WEST ECKMAN 220 WEST ECKMAN SOUTH BEND, IN	SPILLS	N/A
SOUTH BEND ACQUISITION CORP. SOUT 220 W ECKMAN ST SOUTH BEND, IN	FINDS	N/A

## EXECUTIVE SUMMARY

SIBLEY MACHINE AND FOUNDRY CORPOR 220 WEST ECKMAN STREET SOUTH BEND, IN 46614	CERC-NFRAP	IND984892521
ACCUCAST TECHNOLOGY LLC 220 W ECKMAN ST SOUTH BEND, IN 46614	BROWNFIELDS	N/A
ACCUCAST TECHNOLOGY, L.L.C. 220 W ECKMAN ST SOUTH BEND, IN 46601	AIRS	N/A
SIBLEY MACHINE AND FOUNDRY CORP 220 W ECKMAN ST SOUTH BEND, IN 46614	RCRA NonGen / NLR PADS MANIFEST	IND057391765
SIBLEY MACHINE AND FDRY CORP 220 ECKMAN SOUTH BEND, IN 46624	FTTS HIST FTTS	N/A

### **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

## EXECUTIVE SUMMARY

### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators  
RCRA-SQG..... RCRA - Small Quantity Generators

### ***Federal institutional controls / engineering controls registries***

US ENG CONTROLS..... Engineering Controls Sites List  
US INST CONTROL..... Sites with Institutional Controls  
LUCIS..... Land Use Control Information System

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

SHWS..... List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model

### ***State and tribal leaking storage tank lists***

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

INDIAN UST..... Underground Storage Tanks on Indian Land  
FEMA UST..... Underground Storage Tank Listing

### ***State and tribal voluntary cleanup sites***

VCP..... Voluntary Remediation Program Site List  
INDIAN VCP..... Voluntary Cleanup Priority Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
ODI..... Open Dump Inventory  
SWRCY..... Recycling Facilities  
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US CDL..... Clandestine Drug Labs  
DEL SHWS..... Deleted Commissioner's Bulletin Sites List  
CDL..... Clandestine Drug Lab Listing  
US HIST CDL..... National Clandestine Laboratory Register

#### ***Local Land Records***

LIENS 2..... CERCLA Lien Information

#### ***Records of Emergency Release Reports***

HMIRS..... Hazardous Materials Information Reporting System



## EXECUTIVE SUMMARY

SPILLS 80..... SPILLS 80 data from FirstSearch  
SPILLS 90..... SPILLS 90 data from FirstSearch

### ***Other Ascertainable Records***

DOT OPS..... Incident and Accident Data  
DOD..... Department of Defense Sites  
FUDS..... Formerly Used Defense Sites  
CONSENT..... Superfund (CERCLA) Consent Decrees  
ROD..... Records Of Decision  
UMTRA..... Uranium Mill Tailings Sites  
US MINES..... Mines Master Index File  
TRIS..... Toxic Chemical Release Inventory System  
TSCA..... Toxic Substances Control Act  
SSTS..... Section 7 Tracking Systems  
ICIS..... Integrated Compliance Information System  
MLTS..... Material Licensing Tracking System  
RADINFO..... Radiation Information Database  
RAATS..... RCRA Administrative Action Tracking System  
RMP..... Risk Management Plans  
NPDES..... NPDES Permit Listing  
UIC..... UIC Site Listing  
BULK..... Registered Bulk Fertilizer and Pesticide Storage Facilities  
DRYCLEANERS..... Drycleaner Facility Listing  
TIER 2..... Tier 2 Facility Listing  
INDIAN RESERV..... Indian Reservations  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
Financial Assurance..... Financial Assurance Information Listing  
COAL ASH..... Coal Ash Disposal Sites  
EPA WATCH LIST..... EPA WATCH LIST  
2020 COR ACTION..... 2020 Corrective Action Program List  
US AIRS..... Aerometric Information Retrieval System Facility Subsystem  
OISC..... Office of Indiana State Chemist Database  
PRP..... Potentially Responsible Parties  
LEAD SMELTERS..... Lead Smelter Sites  
PCB TRANSFORMER..... PCB Transformer Registration Database  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
US FIN ASSUR..... Financial Assurance Information

### **EDR HIGH RISK HISTORICAL RECORDS**

#### ***EDR Exclusive Records***

EDR MGP..... EDR Proprietary Manufactured Gas Plants  
EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### ***Exclusive Recovered Govt. Archives***

RGA LF..... Recovered Government Archive Solid Waste Facilities List  
RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List

## EXECUTIVE SUMMARY

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal CERCLIS list***

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LINDEN ROAD SITE	LINDEN RD AND CHIPPEWA	SW 1/4 - 1/2 (0.362 mi.)	29	64

#### ***Federal CERCLIS NFRAP site List***

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there are 2 CERC-NFRAP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>COPCO STEEL AND ENGINEERING CO</i></b>	<b><i>2901 S MAIN ST</i></b>	<b><i>SE 1/8 - 1/4 (0.152 mi.)</i></b>	<b><i>D14</i></b>	<b><i>35</i></b>
SUPER AUTO SALVAGE YARD	3300 SOUTH MAIN STREET	SSE 1/4 - 1/2 (0.361 mi.)	28	64

## EXECUTIVE SUMMARY

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 09/10/2013 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>COPCO STEEL AND ENGINEERING CO</i></b>	<b><i>2901 S MAIN ST</i></b>	<b><i>SE 1/8 - 1/4 (0.152 mi.)</i></b>	<b><i>D14</i></b>	<b><i>35</i></b>
<b><i>INDIANA GRQ INCORPORATED</i></b>	<b><i>701 W CHIPPEWA AVE</i></b>	<b><i>SSW 1/2 - 1 (0.690 mi.)</i></b>	<b><i>34</i></b>	<b><i>71</i></b>

### ***Federal RCRA generators list***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 09/10/2013 has revealed that there are 5 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>DAVES GARAGE</i></b>	<b><i>2900 S MAIN ST</i></b>	<b><i>SE 1/8 - 1/4 (0.153 mi.)</i></b>	<b><i>D17</i></b>	<b><i>42</i></b>
<b><i>OMNICARE</i></b>	<b><i>3006 S MICHIGAN ST</i></b>	<b><i>SE 1/8 - 1/4 (0.242 mi.)</i></b>	<b><i>27</i></b>	<b><i>61</i></b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>FOREST SIGN &amp; DISPLAY</i></b>	<b><i>2729 S MAIN ST</i></b>	<b><i>ENE 0 - 1/8 (0.101 mi.)</i></b>	<b><i>C11</i></b>	<b><i>26</i></b>
<b><i>DONS BODY SHOP INC</i></b>	<b><i>2715 S MAIN ST</i></b>	<b><i>ENE 0 - 1/8 (0.106 mi.)</i></b>	<b><i>C12</i></b>	<b><i>30</i></b>
<b><i>SCOTTSDALE SVC CTR</i></b>	<b><i>2604 S MAIN ST</i></b>	<b><i>NE 1/8 - 1/4 (0.171 mi.)</i></b>	<b><i>E21</i></b>	<b><i>50</i></b>

### ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environmental Management's list: Permitted Solid Waste Facilities/Landfills Closed Prior to December 5, 1991.

A review of the SWF/LF list, as provided by EDR, and dated 12/02/2013 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>GREEN TECH TRANSFER &amp; RECYCLIN</i></b>	<b><i>2500 GREEN TECH DR</i></b>	<b><i>NNW 1/8 - 1/4 (0.157 mi.)</i></b>	<b><i>19</i></b>	<b><i>48</i></b>

## EXECUTIVE SUMMARY

### **State and tribal leaking storage tank lists**

LUST: Lust List.

A review of the LUST list, as provided by EDR, and dated 11/04/2013 has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>GENTENNIAL STEEL</b> Description: NFA-Unconditional Closure	<b>2901 S MAIN</b>	<b>SE 1/8 - 1/4 (0.152 mi.)</b>	<b>D13</b>	<b>34</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KWIK MART #34</b> Description: NFA-Conditional Closure	<b>2603 S MICHIGAN</b>	<b>NE 1/8 - 1/4 (0.228 mi.)</b>	<b>F26</b>	<b>59</b>
<b>CLARK OIL &amp; REFINING #0448</b> Description: Active	<b>2322 S MICHIGAN</b>	<b>NNE 1/4 - 1/2 (0.372 mi.)</b>	<b>G30</b>	<b>66</b>
<b>RAINBOW MUFFLER OF SOUTHBEND I</b> Description: NFA-Unconditional Closure	<b>2302 S MICHIGAN</b>	<b>NNE 1/4 - 1/2 (0.384 mi.)</b>	<b>G31</b>	<b>67</b>
<b>DISCOUNT MUFFLER</b> Description: Active	<b>2222 S MICHIGAN ST</b>	<b>NNE 1/4 - 1/2 (0.422 mi.)</b>	<b>32</b>	<b>68</b>

### **State and tribal registered storage tank lists**

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Management's Indiana Registered Underground Storage Tanks list.

A review of the UST list, as provided by EDR, and dated 11/04/2013 has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
F & A LANUNDRY	2817 S MICHIGAN	ESE 1/8 - 1/4 (0.183 mi.)	22	53
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>KWIK MART #34</b>	<b>2603 S MICHIGAN</b>	<b>NE 1/8 - 1/4 (0.228 mi.)</b>	<b>F26</b>	<b>59</b>

### **State and tribal institutional control / engineering control registries**

AUL: A listing of Comfort/Site Status Letter sites that have been issued with Institutional Controls.

A review of the AUL list, as provided by EDR, and dated 11/06/2013 has revealed that there are 2 AUL sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LTV PLANT 8</b>	<b>408 W ECKMAN</b>	<b>NW 0 - 1/8 (0.073 mi.)</b>	<b>B9</b>	<b>20</b>
<b>KWIK MART #34</b>	<b>2603 S MICHIGAN</b>	<b>NE 1/8 - 1/4 (0.228 mi.)</b>	<b>F26</b>	<b>59</b>

## EXECUTIVE SUMMARY

### ***State and tribal Brownfields sites***

BROWNFIELDS: >A brownfield site is an industrial or commercial property that is abandoned, inactive, or underutilized, on which expansion or redevelopment is complicated due to the actual or perceived environmental contamination.

A review of the BROWNFIELDS list, as provided by EDR, and dated 12/03/2013 has revealed that there are 3 BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>CENTENNIAL STEEL</b>	<b>2901 S MAIN</b>	<b>SE 1/8 - 1/4 (0.152 mi.)</b>	<b>D13</b>	<b>34</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LTV PLANT 8</b>	<b>408 W ECKMAN</b>	<b>NW 0 - 1/8 (0.073 mi.)</b>	<b>B9</b>	<b>20</b>
<b>EMI, INC</b>	<b>2026 S MAIN ST</b>	<b>N 1/4 - 1/2 (0.486 mi.)</b>	<b>33</b>	<b>69</b>

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 09/24/2013 has revealed that there are 2 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORMER CENTENNIAL STEEL	2901 S. MAIN STREET	SE 1/8 - 1/4 (0.152 mi.)	D15	38
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
FORMER STUDEBAKER PLANT #8	408 WEST ECKMAN STREET	NW 0 - 1/8 (0.073 mi.)	B10	25

#### ***Other Ascertainable Records***

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/10/2013 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>COPCO STEEL AND ENGINEERING CO</b>	<b>2901 S MAIN ST</b>	<b>SE 1/8 - 1/4 (0.152 mi.)</b>	<b>D14</b>	<b>35</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LTV PLANT 8</b>	<b>408 W ECKMAN</b>	<b>NW 0 - 1/8 (0.073 mi.)</b>	<b>B9</b>	<b>20</b>

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ZIEBART SPEEDY AUTO GLASS	2627 S MAIN ST	NE 1/8 - 1/4 (0.155 mi.)	E18	45
SHERWIN WILLIAMS CO THE	2632 S MICHIGAN ST PO B	ENE 1/8 - 1/4 (0.200 mi.)	24	54

### MANIFEST:

A review of the MANIFEST list, as provided by EDR, and dated 12/31/2011 has revealed that there are 8 MANIFEST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CENTENNIAL STEEL	2901 S MAIN	SE 1/8 - 1/4 (0.152 mi.)	D16	40
DAVES GARAGE	2900 S MAIN ST	SE 1/8 - 1/4 (0.153 mi.)	D17	42

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
LTV PLANT 8	408 W ECKMAN	NW 0 - 1/8 (0.073 mi.)	B9	20
FOREST SIGN & DISPLAY	2729 S MAIN ST	ENE 0 - 1/8 (0.101 mi.)	C11	26
DONS BODY SHOP INC	2715 S MAIN ST	ENE 0 - 1/8 (0.106 mi.)	C12	30
ZIEBART SPEEDY AUTO GLASS	2627 S MAIN ST	NE 1/8 - 1/4 (0.155 mi.)	E18	45
SCOTTSDALE SVC CTR	2604 S MAIN ST	NE 1/8 - 1/4 (0.171 mi.)	E21	50
SHERWIN WILLIAMS CO THE	2632 S MICHIGAN ST PO B	ENE 1/8 - 1/4 (0.200 mi.)	24	54

SCP: The goals for the State Cleanup Section are to mitigate risk to human health and the environment.

A review of the SCP list, as provided by EDR, and dated 12/03/2013 has revealed that there is 1 SCP site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SIBLEY FOUNDRY	22 W ECKMAN ST	ENE 1/8 - 1/4 (0.186 mi.)	23	54

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 2 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

## EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
Not reported	2604 S MAIN ST	NE 1/8 - 1/4 (0.171 mi.)	E20	50
Not reported	2603 S MICHIGAN ST	NE 1/8 - 1/4 (0.228 mi.)	F25	59

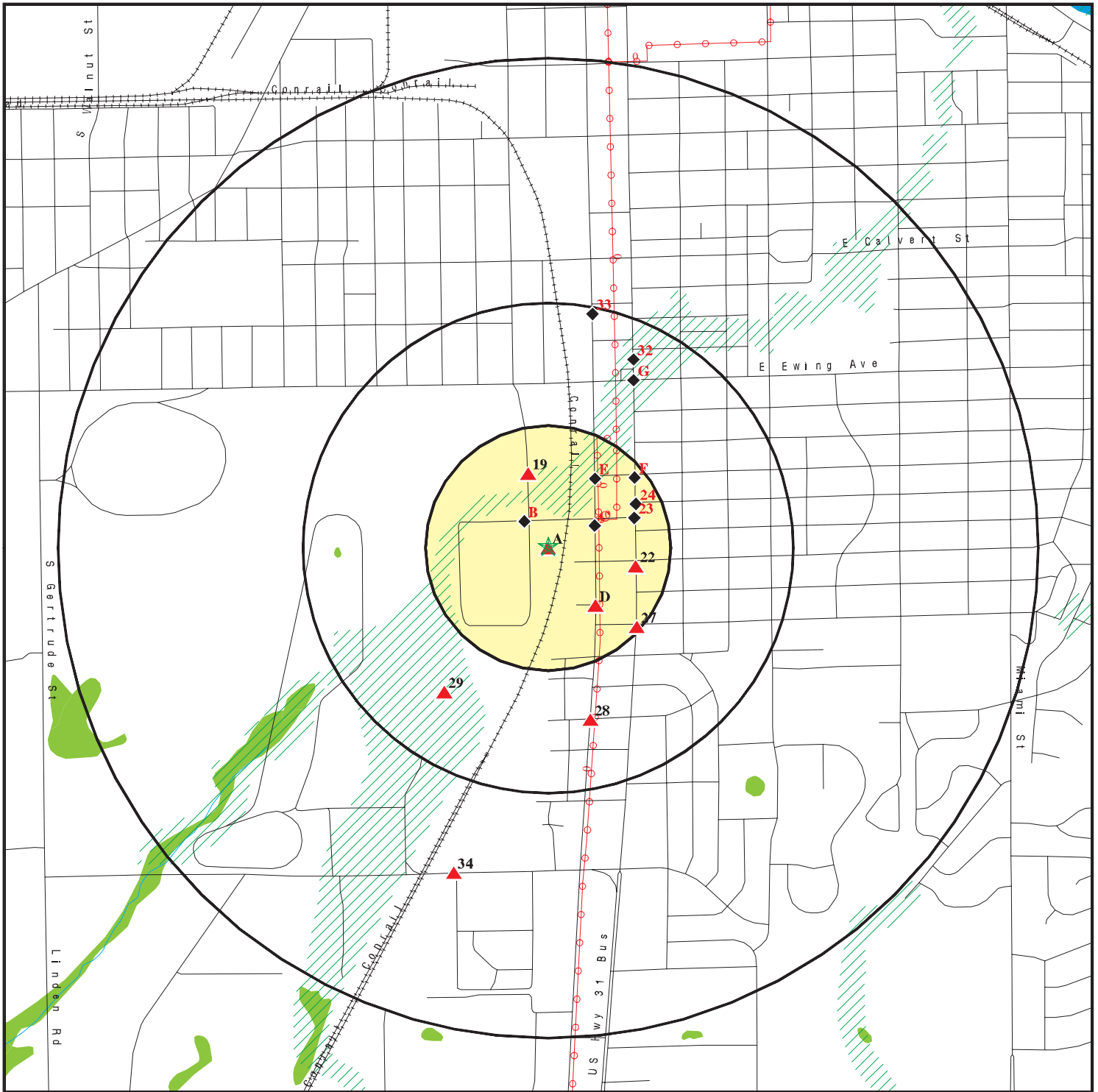
## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

<u>Site Name</u>	<u>Database(s)</u>
IRELAND ROAD STUDY	AUL, BROWNFIELDS
CHIPPEWA AVENUE WELL FIELD	SHWS, RGA HWS
FORMER STUDEBAKER IGNITION PARK LO	BROWNFIELDS
MAIN & WESTERN VACANT LOT	BROWNFIELDS
IRELAND ROAD SITE	CERC-NFRAP
NORTH LIBERTY SITE	CERC-NFRAP
STRAWBERRY ROAD SITE	CERC-NFRAP
GILMER PARK	CERC-NFRAP
DOLLAR LAKE SITE	CERC-NFRAP
UNIVERSITY OF NOTRE DAME COAL ASH	VCP
SITE ID 181411008	FINDS
BECK'S LAKE SITE	FINDS
FORMER STUDEBAKER IGNITION PARK LO	FINDS
KALEY STREET DRUM SITE	FINDS
LINDEN ROAD SITE	FINDS
FORMER RAILROAD PROPERTY	FINDS
SITE ID 181410015	FINDS
FORMER PENTECOSTAL CHURCH	FINDS
FORMER OLIVER PLOW WORKS	US BROWNFIELDS
FORMER RAILROAD PROPERTY	US BROWNFIELDS



# OVERVIEW MAP - 3880645.2s



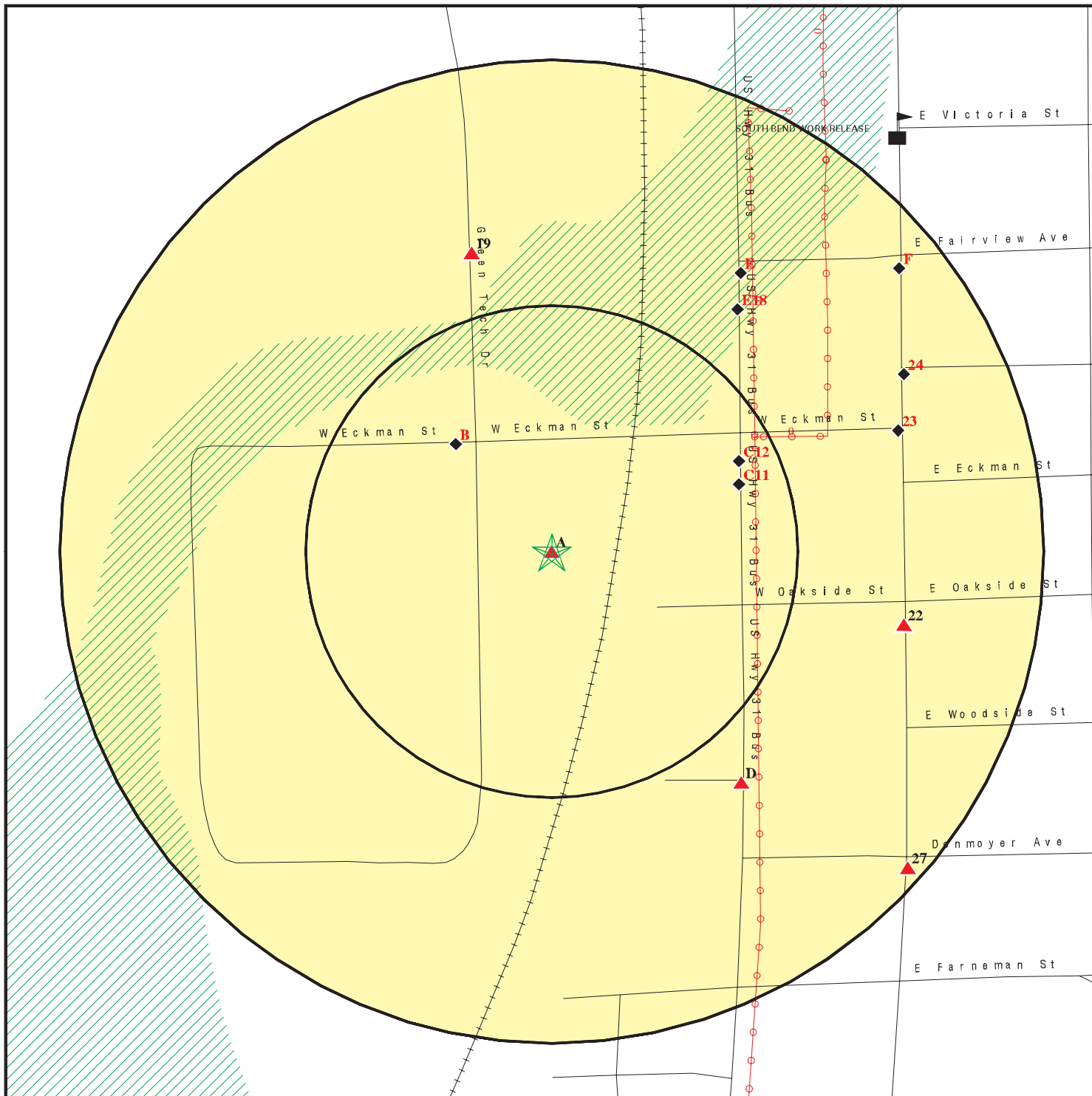
- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ☒ National Priority List Sites
- ☒ Dept. Defense Sites
- ☒ Indian Reservations BIA
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines from USGS
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Former Sibley/Accucast Site  
 ADDRESS: 220 W Eckman St.  
 South Bend IN 46614  
 LAT/LONG: 41.6457 / 86.2531

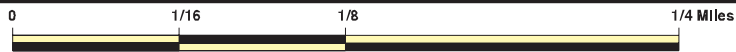
CLIENT: Weaver Boos Consultants  
 CONTACT: Alex Huang  
 INQUIRY #: 3880645.2s  
 DATE: March 14, 2014 9:21 am

# DETAIL MAP - 3880645.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Power transmission lines
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Former Sibley/Accucast Site  
 ADDRESS: 220 W Eckman St.  
 South Bend IN 46614  
 LAT/LONG: 41.6457 / 86.2531

CLIENT: Weaver Boos Consultants  
 CONTACT: Alex Huang  
 INQUIRY #: 3880645.2s  
 DATE: March 14, 2014 9:21 am

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
CERCLIS	0.500		0	0	1	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site List</i></b>								
CERC-NFRAP	0.500	1	0	1	1	NR	NR	3
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	1	0	1	NR	2
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		2	3	NR	NR	NR	5
<b><i>Federal institutional controls / engineering controls registries</i></b>								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	1	0	NR	NR	1
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500	1	0	2	3	NR	NR	6
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
UST	0.250	1	0	2	NR	NR	NR	3

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
AUL	0.500		1	1	0	NR	NR	2
<b>State and tribal voluntary cleanup sites</b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500	1	1	1	1	NR	NR	4
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		1	1	0	NR	NR	2
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US CDL	TP		NR	NR	NR	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP	1	NR	NR	NR	NR	NR	1
SPILLS 80	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250	1	1	3	NR	NR	NR	5
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP	1	NR	NR	NR	NR	NR	1
HIST FTTS	TP	1	NR	NR	NR	NR	NR	1
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP	1	NR	NR	NR	NR	NR	1
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
BULK	0.250		0	0	NR	NR	NR	0
MANIFEST	0.250	1	3	5	NR	NR	NR	9
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
AIRS	TP	1	NR	NR	NR	NR	NR	1
TIER 2	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
SCP	0.500		0	1	0	NR	NR	1
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
OISC	0.250		0	0	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

### EDR HIGH RISK HISTORICAL RECORDS

#### *EDR Exclusive Records*

EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	2	NR	NR	NR	2
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP	1	NR	NR	NR	NR	NR	1
RGA HWS	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**            **SOUTH BEND ACQUISITION CORP**  
**Target**        **220 W ECKMAN ST**  
**Property**      **SOUTH BEND, IN 46614**

**LUST**        **U004002732**  
**UST**            **N/A**  
**RGA LUST**

**Site 1 of 8 in cluster A**

**Actual:**  
**758 ft.**

**LUST:**  
Facility ID:            15870  
Incident Number:    198912518  
Affected Area:        Soil  
Description:          NFA-Unconditional Closure  
Priority:                Low

**UST:**  
Facility ID:            15870  
Owner Id:              7766  
Company Name:        Signal Delivery Service Inc  
Mailing Address:     4300 Peters Rd  
Mailing Address 2:    Not reported  
Mailing City,St,Zip:  Evansville, IN 47711

Tank Number:         1  
**Tank Status:**        **Permanently Out of Service**  
Install Date:         Not reported  
Tank Capacity:        500  
Substance Desc:      Gasoline

**RGA LUST:**

2012	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2011	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2010	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2009	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2008	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2007	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2006	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2005	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2004	SIBLEY MACHINE & FOUNDRY	220 W ECKMAN ST
2003	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2002	SOUTH BEND ACQUISITION CORP	220 W ECKMAN ST
2001	SIBLEY MACHINE & FOUNDRY	220 W ECKMAN ST
2000	SIBLEY MACHINE & FOUNDRY	220 W ECKMAN ST

**A2**            **220 WEST ECKMAN**  
**Target**        **SOUTH BEND, IN**  
**Property**

**SPILLS**        **S106745886**  
**N/A**

**Site 2 of 8 in cluster A**

**Actual:**  
**758 ft.**

**SPILL:**  
Facility ID:            200411003  
Incident Date:        11/01/2004  
Report Date:          11/01/2004  
Material:               chromium and lead  
Spill Source:          Not reported  
Recovered Amount:    Not reported  
Recovered Units:      Not reported  
Spilled Amount:      Not reported  
Spilled Units:        Not reported  
Contained:             Not reported  
Water Affected:       groundwater

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**(Continued)**

**S106745886**

Spill Type:	Spill
Area Affected:	Not reported
Fish Killed:	Not reported
Water Supply Affected:	N
Public Intake:	Not reported

**A3  
 Target  
 Property**

**SOUTH BEND ACQUISITION CORP. SOUTH BEND FOUNDRY  
 220 W ECKMAN ST  
 SOUTH BEND, IN**

**FINDS 1016091659  
 N/A**

**Site 3 of 8 in cluster A**

**Actual:  
 758 ft.**

FINDS:

Registry ID: 110000399907

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH BEND ACQUISITION CORP. SOUTH BEND FOUNDRY (Continued)**

**1016091659**

CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY

**A4  
Target  
Property**

**SIBLEY MACHINE AND FOUNDRY CORPORATION  
220 WEST ECKMAN STREET  
SOUTH BEND, IN 46614**

**CERC-NFRAP**

**1000853572  
IND984892521**

**Site 4 of 8 in cluster A**

**Actual:  
758 ft.**

CERC-NFRAP:  
Site ID: 0507313  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Program Priority:  
Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 11/02/94  
Priority Level: Higher priority for further assessment

Action: INTEGRATED ASSESSMENT  
Date Started: 11/02/94  
Date Completed: 11/02/94  
Priority Level: Higher priority for further assessment

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 09/18/03  
Priority Level: Not reported

Action: SITE INSPECTION  
Date Started: 11/22/02  
Date Completed: 09/18/03  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: DISCOVERY  
Date Started: / /  
Date Completed: 09/29/93  
Priority Level: Not reported

**A5  
Target  
Property**

**ACCUCAST TECHNOLOGY LLC  
220 W ECKMAN ST  
SOUTH BEND, IN 46614**

**BROWNFIELDS**

**S112234593  
N/A**

**Site 5 of 8 in cluster A**

**Actual:  
758 ft.**

IN BROWNFIELD:  
Facility ID: 4121102  
Project Manager: Andrea Robertson-Habeck  
AI Id: 29698

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s) EDR ID Number  
EPA ID Number

**A6** ACCUCAST TECHNOLOGY, L.L.C.  
**Target** 220 W ECKMAN ST  
**Property** SOUTH BEND, IN 46601

**AIRS** S107704560  
N/A

**Site 6 of 8 in cluster A**

**Actual:**  
**758 ft.**

AIRS:  
Status: Not reported  
Source ID: Not reported  
Responsible Official Name: Tom Wozniak  
Responsible Official Phone: 574-251-1460  
Mailing Street: 220 W Eckman St  
Mailing City,St,Zip: South Bend, IN 46614  
SIC Code: Not reported  
Permit ID: 24573  
Permit Level: FESOP  
Subtype Qualifier: Not reported  
Issue Date: 08-12-2008  
Plant Id: 00203  
MAX of Year: Not reported  
County FIPS: Not reported  
Individual Plant ID: Not reported  
Latitude: Not reported  
Longitude: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported  
CO: Not reported  
NOX: Not reported  
PM10: Not reported  
SO2: Not reported  
VOC: Not reported

Status: Operating  
Source ID: 00010  
Responsible Official Name: Sal Detraglia  
Responsible Official Phone: 574-251-1460  
Mailing Street: 220 W Eckman St  
Mailing City,St,Zip: South Bend, IN 46614  
SIC Code: 3321  
Permit ID: 6210  
Permit Level: Title V  
Subtype Qualifier: Not reported  
Issue Date: 02/18/1999  
Plant Id: Not reported  
MAX of Year: Not reported  
County FIPS: Not reported  
Individual Plant ID: Not reported  
Latitude: Not reported  
Longitude: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported  
CO: Not reported  
NOX: Not reported  
PM10: Not reported  
SO2: Not reported  
VOC: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACCUCAST TECHNOLOGY, L.L.C. (Continued)**

**S107704560**

Status: Operating  
Source ID: 00010  
Responsible Official Name: Sal Detraglia  
Responsible Official Phone: 574-251-1460  
Mailing Street: 220 W Eckman St  
Mailing City,St,Zip: South Bend, IN 46614  
SIC Code: 3321  
Permit ID: 13477  
Permit Level: Title V  
Subtype Qualifier: Reopen - Cont. vs Intermittent Compliance  
Issue Date: 01/24/2002  
Plant Id: Not reported  
MAX of Year: Not reported  
County FIPS: Not reported  
Individual Plant ID: Not reported  
Latitude: Not reported  
Longitude: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported  
CO: Not reported  
NOX: Not reported  
PM10: Not reported  
SO2: Not reported  
VOC: Not reported

Status: Operating  
Source ID: 00010  
Responsible Official Name: Sal Detraglia  
Responsible Official Phone: 574-251-1460  
Mailing Street: 220 W Eckman St  
Mailing City,St,Zip: South Bend, IN 46614  
SIC Code: 3321  
Permit ID: 12734  
Permit Level: Title V  
Subtype Qualifier: Administrative Amendment  
Issue Date: 11/14/2000  
Plant Id: Not reported  
MAX of Year: Not reported  
County FIPS: Not reported  
Individual Plant ID: Not reported  
Latitude: Not reported  
Longitude: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported  
CO: Not reported  
NOX: Not reported  
PM10: Not reported  
SO2: Not reported  
VOC: Not reported

Status: Operating  
Source ID: 00010  
Responsible Official Name: Sal Detraglia  
Responsible Official Phone: 574-251-1460  
Mailing Street: 220 W Eckman St

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACCUCAST TECHNOLOGY, L.L.C. (Continued)**

**S107704560**

Mailing City,St,Zip: South Bend, IN 46614  
SIC Code: 3321  
Permit ID: 11175  
Permit Level: Title V  
Subtype Qualifier: Significant Source Mod. (Minor PSD/EO) (120)  
Issue Date: 02/22/2000  
Plant Id: Not reported  
MAX of Year: Not reported  
County FIPS: Not reported  
Individual Plant ID: Not reported  
Latitude: Not reported  
Longitude: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported  
CO: Not reported  
NOX: Not reported  
PM10: Not reported  
SO2: Not reported  
VOC: Not reported

Status: Operating  
Source ID: 00010  
Responsible Official Name: Sal Detraglia  
Responsible Official Phone: 574-251-1460  
Mailing Street: 220 W Eckman St  
Mailing City,St,Zip: South Bend, IN 46614  
SIC Code: 3321  
Permit ID: 21443  
Permit Level: Title V  
Subtype Qualifier: Minor Permit Modification  
Issue Date: 01/03/2006  
Plant Id: Not reported  
MAX of Year: Not reported  
County FIPS: Not reported  
Individual Plant ID: Not reported  
Latitude: Not reported  
Longitude: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported  
CO: Not reported  
NOX: Not reported  
PM10: Not reported  
SO2: Not reported  
VOC: Not reported

Status: Operating  
Source ID: 00010  
Responsible Official Name: Sal Detraglia  
Responsible Official Phone: 574-251-1460  
Mailing Street: 220 W Eckman St  
Mailing City,St,Zip: South Bend, IN 46614  
SIC Code: 3321  
Permit ID: 21187  
Permit Level: Title V  
Subtype Qualifier: Minor Source Modification

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ACCUCAST TECHNOLOGY, L.L.C. (Continued)**

**S107704560**

Issue Date: 09/19/2005  
Plant Id: Not reported  
MAX of Year: Not reported  
County FIPS: Not reported  
Individual Plant ID: Not reported  
Latitude: Not reported  
Longitude: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported  
CO: Not reported  
NOX: Not reported  
PM10: Not reported  
SO2: Not reported  
VOC: Not reported

**A7  
Target  
Property**

**SIBLEY MACHINE AND FOUNDRY CORP  
220 W ECKMAN ST  
SOUTH BEND, IN 46614**

**RCRA NonGen / NLR  
PADS  
MANIFEST**

**1000509517  
IND057391765**

**Site 7 of 8 in cluster A**

**Actual:  
758 ft.**

RCRA NonGen / NLR:  
Date form received by agency: 05/20/2002  
Facility name: SIBLEY MACHINE AND FOUNDRY CORP  
Facility address: 220 W ECKMAN ST  
SOUTH BEND, IN 46614  
EPA ID: IND057391765  
Contact: DONALD L MARTIN  
Contact address: 220 W ECKMAN ST PO BOX 40  
SOUTH BEND, IN 46601  
Contact country: US  
Contact telephone: (219) 288-4611  
Contact email: Not reported  
EPA Region: 05  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: SIBLEY MACH AND FOUNDRY  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998  
Owner/operator country: Not reported  
Owner/operator telephone: (312) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/0001  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIBLEY MACHINE AND FOUNDRY CORP (Continued)**

**1000509517**

On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 05/01/1989  
Facility name: SIBLEY MACHINE AND FOUNDRY CORP  
Classification: Small Quantity Generator

**Hazardous Waste Summary:**

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

**Facility Has Received Notices of Violations:**

Regulation violated: SR - IC 13-30-2-1  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SS - IC 13-30-2-1(4)  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: STATE COMPLIANCE ORDER 3008(A)  
Enforcement action date: 11/18/2009  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - IC 13-30-2-1  
Area of violation: State Statute or Regulation

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIBLEY MACHINE AND FOUNDRY CORP (Continued)**

**1000509517**

Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: PROPOSED AGREED ORDER (PAO) SENT  
Enforcement action date: 10/07/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SS - IC 13-30-2-1(4)  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/27/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - IC 13-30-2-1  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/27/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SS - IC 13-30-2-1(4)  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SR - IC 13-30-2-1  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIBLEY MACHINE AND FOUNDRY CORP (Continued)**

**1000509517**

Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 11/09/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 6000  
Paid penalty amount: 6000

Regulation violated: SR - IC 13-30-2-1  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: STATE COMPLIANCE ORDER 3008(A)  
Enforcement action date: 11/18/2009  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SS - IC 13-30-2-1(4)  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER  
Enforcement action date: 11/09/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: 6000  
Paid penalty amount: 6000

Regulation violated: SS - IC 13-30-2-1(4)  
Area of violation: State Statute or Regulation  
Date violation determined: 12/02/2004  
Date achieved compliance: Not reported  
Violation lead agency: State  
Enforcement action: PROPOSED AGREED ORDER (PAO) SENT  
Enforcement action date: 10/07/2005  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 06/23/2008  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIBLEY MACHINE AND FOUNDRY CORP (Continued)**

**1000509517**

Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 01/24/2008  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 12/02/2004  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: State Statute or Regulation  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 07/25/2003  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 03/11/2001  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 05/12/2000  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/29/1999  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

**PADS:**

EPAID: IND984883330  
Facility name: SIBLEY MACHINE & FOUNDRY  
Facility Address: 220 W ECKMAN ST  
SOUTH BEND, IN 46614  
Facility country: US  
Generator: Yes  
Storer: No  
Transporter: No  
Disposer: No  
Research facility: No  
Smelter: No  
Facility owner name: WILLIAM H. VOLL  
Contact title: Not reported  
Contact name: VOLL, TOM  
Contact tel: (219)234-7121  
Contact extension: Not reported  
Mailing address: PO BOX 40  
SOUTH BEND, IN 46624

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIBLEY MACHINE AND FOUNDRY CORP (Continued)**

**1000509517**

Mailing country: US  
Cert. title: Not reported  
Cert. name: Not reported  
Cert. date: 02/10/1992  
Date received: 02/27/1992

**IN MANIFEST:**

EPA ID: IND057391765  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**Manifest Handler:**

EPA Id #: IND057391765  
Generator Type: Not reported  
Generator Status: Non Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active  
Handler Mailing Address: PO BOX 40  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46601  
Contact Last Name: MARTIN  
Contact First Name: DONALD L  
Contact Telephone: 574-288-4611  
Contact Type: B

**Receiver Records:**

Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

**Shipment Records:**

Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

**Transporter Records:**

Report Year: Not reported  
Generator EPA ID: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SIBLEY MACHINE AND FOUNDRY CORP (Continued)**

1000509517

Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: IND057391765  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: IND057391765  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**A8** **SIBLEY MACHINE AND FDRY CORP**  
**Target** **220 ECKMAN**  
**Property** **SOUTH BEND, IN 46624**

**FTTS** **1009523166**  
**HIST FTTS** **N/A**

**Site 8 of 8 in cluster A**

**Actual:**  
**758 ft.**

**FTTS INSP:**  
Inspection Number: 19910322RV006 1  
Region: 05  
Inspection Date: 03/22/91  
Inspector: LEWIN  
Violation occurred: Yes  
Investigation Type: Section 6 PCB SEE Conducted  
Investigation Reason: Neutral Scheme, Region  
Legislation Code: TSCA  
Facility Function: User

**HIST FTTS INSP:**  
Inspection Number: 19910322RV006 1  
Region: 05  
Inspection Date: Not reported  
Inspector: LEWIN  
Violation occurred: Yes  
Investigation Type: Section 6 PCB SEE Conducted  
Investigation Reason: Neutral Scheme, Region  
Legislation Code: TSCA  
Facility Function: User

**B9** **LTV PLANT 8**  
**NW** **408 W ECKMAN**  
**< 1/8** **SOUTH BEND, IN**  
**0.073 mi.**  
**387 ft.** **Site 1 of 2 in cluster B**

**RCRA NonGen / NLR** **1000825358**  
**FINDS** **IND985029768**  
**MANIFEST**  
**AUL**  
**BROWNFIELDS**

**Relative:**  
**Lower**

**RCRA NonGen / NLR:**  
Date form received by agency: 04/11/2002  
Facility name: LTV PLANT 8  
Facility address: 408 W ECKMAN  
SOUTH BEND, IN 46614

**Actual:**  
**756 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LTV PLANT 8 (Continued)**

**1000825358**

EPA ID: IND985029768  
Mailing address: CB RICHARD ELLIS SOUTH BEND  
PO BOX 540  
SOUTH BEND, IN 46624  
Contact: JIM METHENY  
Contact address: PO BOX 540  
SOUTH BEND, IN 46624  
Contact country: US  
Contact telephone: (219) 234-9923  
Contact email: Not reported  
EPA Region: 05  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: AMLAND PROP CO KARSTEN REALTY  
Owner/operator address: 12121 WILSHIRE BLVD  
LOS ANGELES, CA 90025  
Owner/operator country: Not reported  
Owner/operator telephone: (213) 826-0035  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/0001  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 05/25/1994  
Facility name: LTV PLANT 8  
Classification: Small Quantity Generator

Date form received by agency: 07/10/1992  
Facility name: LTV PLANT 8  
Classification: Large Quantity Generator

**Hazardous Waste Summary:**

Waste code: D000  
Waste name: Not Defined

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LTV PLANT 8 (Continued)**

**1000825358**

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D008  
Waste name: LEAD

Waste code: F001  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

**FINDS:**

Registry ID: 110003117047

**Environmental Interest/Information System**

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**IN MANIFEST:**

EPA ID: IND985029768  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**Manifest Handler:**

EPA Id #: IND985029768  
Generator Type: Not reported  
Generator Status: Non Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LTV PLANT 8 (Continued)**

**1000825358**

TSD Status: Non Active  
Handler Mailing Address: PO BOX 540  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46624  
Contact Last Name: ENV-COORD  
Contact First Name: Not reported  
Contact Telephone: 317-236-8011  
Contact Type: B

Receiver Records:

Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

Shipment Records:

Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

Transporter Records:

Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: IND985029768  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: IND985029768  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

AUL:

IC TYPE: Environmental Restrictive Covenant  
Facility Id: 4060009

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LTV PLANT 8 (Continued)**

**1000825358**

Program Area: BF  
Affected Media: Surface Soil, SubSurface Soil, Ground Water  
Date Ic Recorded: 06/26/2008  
Description: Original ERC (recorded 6/26/2008) modified on 11/30/2010 (instrument #1033519) to terminate restriction on excavation of Bowman Creek sediments (para. 8g in ERC). All other restrictions in original ERC still apply.

Control Method A: AUL - Agricultural or Food Crop  
Coverage A: Entire Property  
Chemicals Of Concern A: Metals - Inorganic, SVOC - Semi Volatile Organic Compounds, TPH - Total Petroleum Hydrocarbons, VOC - Volatile Organic Compounds

Comments A: Not reported  
Control Method B: AUL - Excavation Notice Required  
Coverage B: Entire Property  
Chemicals Of Concern B: VOC - Volatile Organic Compounds  
Comments B: Do not excavate soil below 16 feet deep without submitting a work plan to IDEM for approval at least 30 days prior to work.

Control Method C: AUL - Ground Water Use Restriction  
Coverage C: Entire Property  
Chemicals Of Concern C: Metals - Inorganic, SVOC - Semi Volatile Organic Compounds, TPH - Total Petroleum Hydrocarbons, VOC - Volatile Organic Compounds

Comments C: Not reported  
Control Method D: AUL - Residential Use Restriction  
Coverage D: Entire Property  
Chemicals Of Concern D: Metals - Inorganic, SVOC - Semi Volatile Organic Compounds, TPH - Total Petroleum Hydrocarbons, VOC - Volatile Organic Compounds

Comments D: Not reported  
Control Method E: EC - Paved or Concrete Cap  
Coverage E: Portion of property  
Chemicals Of Concern E: VOC - Volatile Organic Compounds  
Comments E: Not reported

Control Method F: Not reported  
Coverage F: Not reported  
Chemicals Of Concern F: Not reported  
Comments F: Not reported

Control Method G: Not reported  
Coverage G: Not reported  
Chemicals Of Concern G: Not reported  
Comments G: Not reported

Control Method H: Not reported  
Coverage H: Not reported  
Chemicals Of Concern H: Not reported  
Comments H: Not reported

Control Method I: Not reported  
Coverage I: Not reported  
Chemicals Of Concern I: Not reported  
Comments I: Not reported

**IN BROWNFIELD:**

Facility ID: 4060009  
Project Manager: Lynette Schrowe  
AI Id: 30628





Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FORMER STUDEBAKER PLANT #8 (Continued)**

**1010375677**

Drinking water affected: Not reported  
 Drinking water cleaned: Not reported  
 Groundwater affected: Y  
 Groundwater cleaned: Not reported  
 Lead contaminant found: Not reported  
 Lead cleaned up: Not reported  
 No media affected: Not reported  
 Unknown media affected: Not reported  
 Other cleaned up: Not reported  
 Other metals found: Y  
 Other metals cleaned: Y  
 Other contaminants found: Not reported  
 Other contams found description: Not reported  
 PAHs found: Y  
 PAHs cleaned up: Y  
 PCBs found: Not reported  
 PCBs cleaned up: Not reported  
 Petro products found: Y  
 Petro products cleaned: Y  
 Sediments found: Not reported  
 Sediments cleaned: Not reported  
 Soil affected: Y  
 Soil cleaned up: Y  
 Surface water cleaned: Not reported  
 Unknown found: Not reported  
 VOCs found: Y  
 VOCs cleaned: Y  
 Cleanup other description: Not reported  
 Num. of cleanup and re-dev. jobs: 5  
 Past use greenspace acreage: Not reported  
 Past use residential acreage: Not reported  
 Past use commercial acreage: Not reported  
 Past use industrial acreage: 33.67  
 Future use greenspace acreage: Not reported  
 Future use residential acreage: Not reported  
 Future use commercial acreage: Not reported  
 Future use industrial acreage: 33.67  
 Greenspace acreage and type: Not reported  
 Superfund Fed. landowner flag: N

**C11**  
**ENE**  
**< 1/8**  
**0.101 mi.**  
**534 ft.**

**FOREST SIGN & DISPLAY**  
**2729 S MAIN ST**  
**SOUTH BEND, IN**  
**Site 1 of 2 in cluster C**

**RCRA-CESQG 1004701102**  
**FINDS INR000104505**  
**MANIFEST**

**Relative:**  
**Lower**

RCRA-CESQG:  
 Date form received by agency: 02/25/2003  
 Facility name: FOREST SIGN & DISPLAY  
 Facility address: 2729 S MAIN ST  
 SOUTH BEND, IN 46614  
 EPA ID: INR000104505  
 Contact: DONALD JESSWEIN  
 Contact address: 2729 S MAIN ST  
 SOUTH BEND, IN 46614  
 Contact country: US  
 Contact telephone: (574) 299-0707  
 Contact email: Not reported

**Actual:**  
**755 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOREST SIGN & DISPLAY (Continued)**

**1004701102**

EPA Region: 05  
Land type: Private  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: FOREST SIGN & DISPLAY  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 02/25/2003  
Owner/Op end date: Not reported

Owner/operator name: DONALD E JESSWEIN  
Owner/operator address: 2729 S MAIN ST  
SOUTH BEND, IN 46614  
Owner/operator country: Not reported  
Owner/operator telephone: (219) 299-0707  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/0001  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOREST SIGN & DISPLAY (Continued)**

**1004701102**

Historical Generators:

Date form received by agency: 08/03/2001  
Facility name: FOREST SIGN & DISPLAY  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:

Regulation violated: SS - IC 13-22-4-3.1  
Area of violation: State Statute or Regulation  
Date violation determined: 05/10/2002  
Date achieved compliance: 03/06/2003  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 05/10/2002  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: SS - IC 13-22-4-3.1  
Area of violation: State Statute or Regulation  
Date violation determined: 05/10/2002  
Date achieved compliance: 03/06/2003  
Violation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOREST SIGN & DISPLAY (Continued)**

**1004701102**

Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/29/2003  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

**Evaluation Action Summary:**

Evaluation date: 05/10/2002  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: State Statute or Regulation  
Date achieved compliance: 03/06/2003  
Evaluation lead agency: State

**FINDS:**

Registry ID: 110012272156

**Environmental Interest/Information System**

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**IN MANIFEST:**

EPA ID: INR000104505  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**Manifest Handler:**

EPA Id #: INR000104505  
Generator Type: CEG  
Generator Status: Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active  
Handler Mailing Address: 2729 S MAIN ST  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46614  
Contact Last Name: JESSWEIN  
Contact First Name: DONALD

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOREST SIGN & DISPLAY (Continued)**

**1004701102**

Contact Telephone: 574-299-0707  
Contact Type: B

Receiver Records:  
Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

Shipment Records:  
Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

Transporter Records:  
Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: INR000104505  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: INR000104505  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

C12  
ENE  
< 1/8  
0.106 mi.  
558 ft.

**DONS BODY SHOP INC**  
**2715 S MAIN ST**  
**SOUTH BEND, IN 46614**  
**Site 2 of 2 in cluster C**

**RCRA-CESQG 1004699003**  
**FINDS IND045338357**  
**MANIFEST**

**Relative:**  
**Lower**

RCRA-CESQG:  
Date form received by agency: 12/09/1991  
Facility name: DONS BODY SHOP INC  
Facility address: 2715 S MAIN ST  
SOUTH BEND, IN 46614

**Actual:**  
**754 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DONS BODY SHOP INC (Continued)**

**1004699003**

EPA ID: IND045338357  
Contact: Not reported  
Contact address: Not reported  
Contact country: Not reported  
Contact telephone: Not reported  
Contact email: Not reported  
EPA Region: 05  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: NAME NOT REPORTED  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998  
Owner/operator country: Not reported  
Owner/operator telephone: (312) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: HUFFAKER DON  
Owner/operator address: 20501 W KERN RD  
SOUTH BEND, IN 46614  
Owner/operator country: Not reported  
Owner/operator telephone: (219) 291-2734  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DONS BODY SHOP INC (Continued)**

**1004699003**

User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 09/19/1986  
Facility name: DONS BODY SHOP INC  
Classification: Not a generator, verified

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

FINDS:

Registry ID: 110003079436

Environmental Interest/Information System

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DONS BODY SHOP INC (Continued)**

**1004699003**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**IN MANIFEST:**

EPA ID: IND045338357  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**Manifest Handler:**

EPA Id #: IND045338357  
Generator Type: Not reported  
Generator Status: Non Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active  
Handler Mailing Address: PO BOX 2591  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46680  
Contact Last Name: HUFFAKER  
Contact First Name: DON  
Contact Telephone: 574-291-5070  
Contact Type: B

**Receiver Records:**

Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

**Shipment Records:**

Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DONS BODY SHOP INC (Continued)**

**1004699003**

Transporter Records:

Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: IND045338357  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: IND045338357  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**D13  
SE  
1/8-1/4  
0.152 mi.  
801 ft.**

**CENTENNIAL STEEL  
2901 S MAIN  
SOUTH BEND, IN 46614  
Site 1 of 5 in cluster D**

**LUST S106351558  
SPILLS N/A  
BROWNFIELDS  
RGA LUST**

**Relative:  
Higher**

LUST:

Facility ID: 19570  
Incident Number: 199102519  
Affected Area: Soil  
Description: NFA-Unconditional Closure  
Priority: Low

**Actual:  
770 ft.**

Facility ID: 19570  
Incident Number: 199105514  
Affected Area: Soil  
Description: NFA-Unconditional Closure  
Priority: Low

SPILL:

Facility ID: 200802040  
Incident Date: 02/05/2008  
Report Date: 02/05/2008  
Material: oil, transformer [PCB]  
Spill Source: Agricultural  
Recovered Amount: Not reported  
Recovered Units: Not reported  
Spilled Amount: 119.00  
Spilled Units: Gallons  
Contained: Not reported  
Water Affected: Not reported  
Spill Type: Spill  
Area Affected: SOIL  
Fish Killed: Not reported  
Water Supply Affected: N  
Public Intake: Not reported

IN BROWNFIELD:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTENNIAL STEEL (Continued)**

**S106351558**

Facility ID: 4070805  
Project Manager: William Wieringa  
AI Id: 29847

**RGALUST:**

2012	CENTENNIAL STEEL	2901 S MAIN
2011	CENTENNIAL STEEL	2901 S MAIN
2010	CENTENNIAL STEEL	2901 S MAIN
2009	CENTENNIAL STEEL	2901 S MAIN
2008	CENTENNIAL STEEL	2901 S MAIN
2007	CENTENNIAL STEEL	2901 S MAIN
2006	CENTENNIAL STEEL	2901 S MAIN
2005	CENTENNIAL STEEL	2901 S MAIN
2004	CENTENNIAL STEEL	2901 S MAIN
2004	CENTENNIAL STEEL	2901 S MAIN
2003	CENTENNIAL STEEL	2901 S MAIN
2002	CENTENNIAL STEEL	2901 S MAIN
2001	CENTENNIAL STEEL	2901 S MAIN
2001	CENTENNIAL STEEL	2901 S MAIN
2000	CENTENNIAL STEEL	2901 S MAIN
2000	CENTENNIAL STEEL	2901 S MAIN

**D14**  
**SE**  
**1/8-1/4**  
**0.152 mi.**  
**801 ft.**

**COPCO STEEL AND ENGINEERING CO**  
**2901 S MAIN ST**  
**SOUTH BEND, IN 46614**

**CERC-NFRAP** 1015733848  
**CORRACTS** IND005157623  
**RCRA NonGen / NLR**

**Site 2 of 5 in cluster D**

**Relative:**  
**Higher**

CERC-NFRAP:  
Site ID: 0506010  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: Deferred to RCRA

**Actual:**  
**770 ft.**

**CERCLIS-NFRAP Site Alias Name(s):**

Alias Name: COPCO STEEL & ENGINEERING CO.  
Alias Address: Not reported  
ST. JOSEPH, IN

Alias Name: CENTENNIAL STEEL  
Alias Address: Not reported  
IN

Alias Name: COPCO STEEL & ENGINEERING CO.  
Alias Address: 2901 SOUTH MAIN STREET  
SOUTH BEND, IN 46614

**Program Priority:**

Description: Great Lakes  
Description: RCRA Deferral Audit  
Description: RCRA Deferral - Lead Confirmed

**CERCLIS-NFRAP Assessment History:**

Action: PRELIMINARY ASSESSMENT  
Date Started: / /

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COPCO STEEL AND ENGINEERING CO (Continued)**

**1015733848**

Date Completed: 08/08/89  
Priority Level: Deferred to RCRA (Subtitle C)

Action: DISCOVERY  
Date Started: / /  
Date Completed: 02/10/89  
Priority Level: Not reported

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 12/11/95  
Priority Level: Not reported

**CORRACTS:**

EPA ID: IND005157623  
EPA Region: 05  
Area Name: ENTIRE FACILITY  
Actual Date: 20090501  
Action: CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IND005157623  
EPA Region: 05  
Area Name: ENTIRE FACILITY  
Actual Date: 19940331  
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

**RCRA NonGen / NLR:**

Date form received by agency: 02/19/1981  
Facility name: COPCO STEEL AND ENGINEERING CO  
Facility address: 2901 S MAIN ST  
SOUTH BEND, IN 46614

EPA ID: IND005157623  
Contact: JOHN CARNICK  
Contact address: 2901 S MAIN ST  
SOUTH BEND, IN 46614

Contact country: US  
Contact telephone: (219) 291-6220  
Contact email: Not reported  
EPA Region: 05  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: NAME NOT REPORTED  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COPCO STEEL AND ENGINEERING CO (Continued)**

**1015733848**

Owner/operator country: Not reported  
Owner/operator telephone: (312) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: COPCO STEEL & ENGINEERING COMPANY  
Owner/operator address: 107 S GREENLAWN AVE  
SOUTH BEND, IN 46617

Owner/operator country: Not reported  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

**Historical Generators:**

Date form received by agency: 08/18/1980  
Facility name: COPCO STEEL AND ENGINEERING CO  
Classification: Not a generator, verified

**Hazardous Waste Summary:**

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**COPCO STEEL AND ENGINEERING CO (Continued)**

**1015733848**

CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F017  
Waste name: Not Defined

Corrective Action Summary:

Event date: 03/31/1994  
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 05/01/2009  
Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: Generators - General  
Date violation determined: 10/11/1984  
Date achieved compliance: 01/08/1987  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 12/19/1984  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 03/14/1988  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/11/1984  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Generators - General  
Date achieved compliance: 01/08/1987  
Evaluation lead agency: State

D15  
SE  
1/8-1/4  
0.152 mi.  
801 ft.

**FORMER CENTENNIAL STEEL**  
**2901 S. MAIN STREET**  
**SOUTH BEND, IN 46614**  
**Site 3 of 5 in cluster D**

**US BROWNFIELDS 1010782332**  
**N/A**

**Relative:**  
**Higher**

US BROWNFIELDS:

Recipient name: South Bend, City of  
Grant type: Assessment  
Property name: FORMER CENTENNIAL STEEL  
Property #: 18-8016-0739  
Parcel size: 9  
Property Description: The site operated predominately as a steel manufacturing facility

**Actual:**  
**770 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FORMER CENTENNIAL STEEL (Continued)**

**1010782332**

from 1931 to 2004. Manufacturing operations included stamping, processing, handling and painting of both raw and stock steel. The property has been vacant for years.

Latitude: 41.644375  
Longitude: -86.251449  
HCM label: Not reported  
Map scale: Not reported  
Point of reference: Not reported  
Datum: World Geodetic System of 1984  
ACRES property ID: 68261  
Start date: Not reported  
Completed date: Not reported  
Acres cleaned up: Not reported  
Cleanup funding: Not reported  
Cleanup funding source: Not reported  
Assessment funding: 47220  
Assessment funding source: US EPA - Brownfields Assessment Cooperative Agreement  
Redevelopment funding: Not reported  
Redev. funding source: Not reported  
Redev. funding entity name: Not reported  
Redevelopment start date: 01-MAR-07  
Assessment funding entity: EPA  
Cleanup funding entity: Not reported  
Grant type: P  
Accomplishment type: Phase II Environmental Assessment  
Accomplishment count: 1  
Cooperative agreement #: 96564501  
Ownership entity: Private  
Current owner: Orangensoft LLC  
Did owner change: N  
Cleanup required: Unknown  
Video available: No  
Photo available: Yes  
Institutional controls required: U  
IC Category proprietary controls: Not reported  
IC cat. info. devices: Not reported  
IC cat. gov. controls: Not reported  
IC cat. enforcement permit tools: Not reported  
IC in place date: Not reported  
IC in place: Not reported  
State/tribal program date: Not reported  
State/tribal program ID: Not reported  
State/tribal NFA date: Not reported  
Air contaminated: Not reported  
Air cleaned: Not reported  
Asbestos found: Y  
Asbestos cleaned: Not reported  
Controlled substance found: Not reported  
Controlled substance cleaned: Not reported  
Drinking water affected: Not reported  
Drinking water cleaned: Not reported  
Groundwater affected: Y  
Groundwater cleaned: Not reported  
Lead contaminant found: Y  
Lead cleaned up: Not reported  
No media affected: Not reported  
Unknown media affected: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**FORMER CENTENNIAL STEEL (Continued)**

**1010782332**

Other cleaned up: Not reported  
 Other metals found: Y  
 Other metals cleaned: Not reported  
 Other contaminants found: Not reported  
 Other contams found description: Not reported  
 PAHs found: Y  
 PAHs cleaned up: Not reported  
 PCBs found: Not reported  
 PCBs cleaned up: Not reported  
 Petro products found: Y  
 Petro products cleaned: Not reported  
 Sediments found: Not reported  
 Sediments cleaned: Not reported  
 Soil affected: Y  
 Soil cleaned up: Not reported  
 Surface water cleaned: Not reported  
 Unknown found: Not reported  
 VOCs found: Y  
 VOCs cleaned: Not reported  
 Cleanup other description: Not reported  
 Num. of cleanup and re-dev. jobs: 0  
 Past use greenspace acreage: Not reported  
 Past use residential acreage: Not reported  
 Past use commercial acreage: Not reported  
 Past use industrial acreage: 9  
 Future use greenspace acreage: Not reported  
 Future use residential acreage: Not reported  
 Future use commercial acreage: Not reported  
 Future use industrial acreage: 9  
 Greenspace acreage and type: Not reported  
 Superfund Fed. landowner flag: N

**D16**  
**SE**  
**1/8-1/4**  
**0.152 mi.**  
**801 ft.**

**CENTENNIAL STEEL**  
**2901 S MAIN**  
**SOUTH BEND, IN**  
**Site 4 of 5 in cluster D**

**FINDS** **1000177782**  
**MANIFEST** **N/A**

**Relative:**  
**Higher**

FINDS:

**Actual:**  
**770 ft.**

Registry ID: 110003071700

Environmental Interest/Information System

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES) is an federal online database for Brownfields Grantees to electronically submit data directly to EPA.

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport,

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTENNIAL STEEL (Continued)**

**1000177782**

and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**IN MANIFEST:**

EPA ID: IND005157623  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**Manifest Handler:**

EPA Id #: IND005157623  
Generator Type: Not reported  
Generator Status: Non Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active  
Handler Mailing Address: 107 S GREENLAWN AVE  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46617  
Contact Last Name: CARNICK  
Contact First Name: JOHN  
Contact Telephone: Not reported  
Contact Type: B

**Receiver Records:**

Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

**Shipment Records:**

Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

**Transporter Records:**

Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CENTENNIAL STEEL (Continued)**

**1000177782**

TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: IND005157623  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: IND005157623  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**D17  
SE  
1/8-1/4  
0.153 mi.  
808 ft.**

**DAVES GARAGE  
2900 S MAIN ST  
SOUTH BEND, IN**

**RCRA-CESQG  
FINDS  
MANIFEST**

**1004699513  
IND984975623**

**Site 5 of 5 in cluster D**

**Relative:  
Higher**

RCRA-CESQG:

Date form received by agency: 05/04/1992

Facility name: DAVES GARAGE

Facility address: 2900 S MAIN ST  
SOUTH BEND, IN 46614

EPA ID: IND984975623  
Mailing address: PO BOX 2583  
SOUTH BEND, IN 46680

Contact: TERRY KAJZER  
Contact address: 2900 S MAIN ST  
SOUTH BEND, IN 46614

Contact country: US  
Contact telephone: (219) 291-4561  
Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: KAJZER TERRY  
Owner/operator address: 20066 ROOSEVELT RD  
SOUTH BEND, IN 46614

Owner/operator country: Not reported  
Owner/operator telephone: (219) 291-5193

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DAVES GARAGE (Continued)**

**1004699513**

Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D000  
Waste name: Not Defined  
  
Waste code: D008  
Waste name: LEAD  
  
Waste code: D039  
Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110003115655

Environmental Interest/Information System

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

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IN MANIFEST:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DAVES GARAGE (Continued)**

**1004699513**

EPA ID: IND984975623  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
Manifest Handler:  
EPA Id #: IND984975623  
Generator Type: CEG  
Generator Status: Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active  
Handler Mailing Address: PO BOX 2583  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46680  
Contact Last Name: KAJZER  
Contact First Name: TERRY  
Contact Telephone: 574-291-4561  
Contact Type: B

Receiver Records:  
Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

Shipment Records:  
Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

Transporter Records:  
Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: IND984975623  
Year: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**DAVES GARAGE (Continued)**

**1004699513**

Tons Generated: Not reported  
Tons Shipped OffSite: Not reported  
  
EPA ID: IND984975623  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**E18  
NE  
1/8-1/4  
0.155 mi.  
820 ft.**

**ZIEBART SPEEDY AUTO GLASS  
2627 S MAIN ST  
SOUTH BEND, IN**

**RCRA NonGen / NLR  
FINDS  
MANIFEST**

**1000161960  
IND052873148**

**Site 1 of 3 in cluster E**

**Relative:  
Lower**

RCRA NonGen / NLR:

Date form received by agency: 05/19/1994

Facility name: ZIEBART AUTO TRUCK RUSTPROOF OF MISH INC

**Actual:  
749 ft.**

Facility address: 2627 S MAIN ST  
SOUTH BEND, IN 46614

EPA ID: IND052873148

Contact: Not reported

Contact address: Not reported

Contact address: Not reported

Contact country: Not reported

Contact telephone: Not reported

Contact email: Not reported

EPA Region: 05

Land type: Facility is not located on Indian land. Additional information is not known.

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

**Owner/Operator Summary:**

Owner/operator name: NAME NOT REPORTED  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998

Owner/operator country: Not reported

Owner/operator telephone: (312) 555-1212

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: Not reported

Owner/Op end date: Not reported

Owner/operator name: BRENNER AUGUST K  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998

Owner/operator country: Not reported

Owner/operator telephone: (312) 555-1212

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: Not reported

Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ZIEBART SPEEDY AUTO GLASS (Continued)**

**1000161960**

Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 11/13/1986  
Facility name: ZIEBART AUTO TRUCK RUSTPROOF OF MISH INC  
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 12/16/2005  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

FINDS:

Registry ID: 110003080683

Environmental Interest/Information System

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Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ZIEBART SPEEDY AUTO GLASS (Continued)**

**1000161960**

IN MANIFEST:

EPA ID: IND052873148  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

Manifest Handler:

EPA Id #: IND052873148  
Generator Type: Not reported  
Generator Status: Non Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active  
Handler Mailing Address: 2627 S MAIN ST  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46614  
Contact Last Name: BRENNER  
Contact First Name: AUGUST K  
Contact Telephone: 574-232-2073  
Contact Type: B

Receiver Records:

Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

Shipment Records:

Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

Transporter Records:

Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: IND052873148

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ZIEBART SPEEDY AUTO GLASS (Continued)**

**1000161960**

Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: IND052873148  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**19  
NNW  
1/8-1/4  
0.157 mi.  
830 ft.**

**GREEN TECH TRANSFER & RECYCLING  
2500 GREEN TECH DR  
SOUTH BEND, IN 46613**

**SWF/LF  
TIER 2  
Financial Assurance  
RGA LF**

**S109095291  
N/A**

**Relative:  
Higher**

LF:

Facility ID: Not reported  
Facility Type: TRANSFER STATION  
Facility Status: Not reported  
SR No: 160  
Contact: ROBERT HESLOP  
Operating Num: 71-04  
Date Closed: Not reported  
Responsible Party: WILLIAM MEYER  
RP Phone: 111-111-1111  
RP Address: 832 LANGSDALE AVE  
RP City,St,Zip: INDIANAPOLIS, IN 46202  
Contact Phone: 574-232-6000  
Owner Name: REPUBLIC SERVICES OF INDIANA LP  
Owner Type: P  
Permanent Expiration: 09/01/2017  
Open To Public: Y

**Actual:  
767 ft.**

TIER 2:

Facility ID and Name: 37272 GREEN TECH TRANSFER & RECYCLING  
SIC Code: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
Owner Name: Not reported  
Owner Phone: Not reported

Chemical Inventory:

Chemical Name: Fuel Oil no. 2-D  
Chemical Info: CAS Num:68476346 Chemical Id: Submission Code:  
More Chemical Info: Max Daily Amt: 100 - 999 Quantity: 365 Container Type: A -  
Above-Ground Tank  
Location Description: A1 South Side Transfer Building  
Storage Info: Storage Loc: Storage Loc2: Storage Loc3: Storage Loc4 Max Daily Amt:  
100 - 999

Facility ID and Name: 37272 GREEN TECH TRANSFER & RECYCLING  
SIC Code: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
Owner Name: Not reported  
Owner Phone: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GREEN TECH TRANSFER & RECYCLING (Continued)**

**S109095291**

Chemical Inventory:

Chemical Name: Fuel Oil no. 2-D  
Chemical Info: CAS Num:68476346 Chemical Id: Submission Code:  
More Chemical Info: Max Daily Amt: 1000 - 9999 Quantity: 365 Container Type: A -  
Above-Ground Tank  
Location Description: South side of Maintenacne building  
Storage Info: Storage Loc: Storage Loc2: Storage Loc3: Storage Loc4 Max Daily Amt:  
1000 - 9999

Facility ID and Name: 37272 GREEN TECH TRANSFER & RECYCLING  
SIC Code: Not reported  
Contact Name: Not reported  
Contact Phone: Not reported  
Owner Name: Not reported  
Owner Phone: Not reported

Chemical Inventory:

Chemical Name: Fuel Oil no. 2-D  
Chemical Info: CAS Num:68476346 Chemical Id: Submission Code:  
More Chemical Info: Max Daily Amt: 100 - 999 Quantity: 365 Container Type: A -  
Above-Ground Tank  
Location Description: A2 South Side Maint Building  
Storage Info: Storage Loc: Storage Loc2: Storage Loc3: Storage Loc4 Max Daily Amt:  
100 - 999

IN Financial Assurance 2:

Region: 2  
Facility Type: TS  
Registration Status: Subtitle D  
FP #: 71-04  
Owner Name: Republic Services  
Contact for FA: Stephanie Goodman  
Contact Number: (260) 434-4108  
Mechanism Date: 3/22/2011  
Certified Closed: Not reported  
Closure/PC Mechanism: Bond  
Closure/PC Guarantor: Ohio Indemnity Company  
Current Year (closure): 0  
Closure cost Est (current year): 44000  
Closure cost Est (previous year): 0  
Previous Year (closure): 0  
Incremental Closure Amt: 0  
Closure Cost/Acre: 0  
PC Current Year: 0  
PC Amt (current year): 0  
PC Previous Year: 0  
PC Amt (previous year): 0  
PC Cost/Acre: 0  
Incremental PC Amt: 0  
Last FA Statement Submittal: 03/22/2011  
Comments: trust #15119602  
FA NA/Bankrupt Etc: Not reported  
Trust Is Funded: Not reported  
Trust Statement Amt: 0  
Trust Statement Date: Not reported  
Trust Trustee: Wells Fargo



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**GREEN TECH TRANSFER & RECYCLING (Continued)**

**S109095291**

C=Closed or ? : Not reported  
 Mechanism Amt: 44000  
 Inc Closure Previous: 0  
 Inc PC Previous: 0  
 HW Liability Insurance: Not reported  
 HW Liability Insurance Issuance Date: Not reported

RGA LF:

2012	GREEN TECH TRANSFER & RECYCLING	2500 GREEN TECH DR
2011	GREEN TECH TRANSFER & RECYCLING	2500 GREEN TECH DR
2010	GREEN TECH TRANSFER & RECYCLING	2500 GREEN TECH DR

**E20**  
**NE**  
**1/8-1/4**  
**0.171 mi.**  
**903 ft.**

**2604 S MAIN ST**  
**SOUTH BEND, IN 46614**  
**Site 2 of 3 in cluster E**

**EDR US Hist Auto Stat 1015372140**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**748 ft.**

EDR Historical Auto Stations:

Name:	NAPA / MARKS AUTOCARE CENTER
Year:	2005
Address:	2604 S MAIN ST
Name:	NAPA MARKS AUTOCARE CENTER
Year:	2006
Address:	2604 S MAIN ST
Name:	NAPA MARKS AUTOCARE CENTER
Year:	2007
Address:	2604 S MAIN ST
Name:	MARKS AUTOCARE CTR
Year:	2010
Address:	2604 S MAIN ST
Name:	AUTO CARE CENTER
Year:	2011
Address:	2604 S MAIN ST
Name:	MARKS AUTOCARE CENTER
Year:	2012
Address:	2604 S MAIN ST

**E21**  
**NE**  
**1/8-1/4**  
**0.171 mi.**  
**903 ft.**

**SCOTTSDALE SVC CTR**  
**2604 S MAIN ST**  
**SOUTH BEND, IN**  
**Site 3 of 3 in cluster E**

**RCRA-CESQG 1001219200**  
**FINDS INR000014688**  
**MANIFEST**

**Relative:**  
**Lower**  
**Actual:**  
**748 ft.**

RCRA-CESQG:

Date form received by agency:	11/07/2001
Facility name:	SCOTTSDALE SVC CTR
Facility address:	2604 S MAIN ST
	SOUTH BEND, IN 46614
EPA ID:	INR000014688
Contact:	MARK LISZEWSKI
Contact address:	2604 S MAIN ST

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SCOTTSDALE SVC CTR (Continued)**

**1001219200**

SOUTH BEND, IN 46614  
Contact country: US  
Contact telephone: (219) 232-0330  
Contact email: Not reported  
EPA Region: 05  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: LISZEWSKI MARK A  
Owner/operator address: 2604 S MAIN ST  
SOUTH BEND, IN 46614  
Owner/operator country: Not reported  
Owner/operator telephone: (219) 232-0330  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/0001  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 02/11/1998  
Facility name: SCOTTSDALE SVC CTR  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SCOTTSDALE SVC CTR (Continued)**

**1001219200**

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Violation Status: No violations found

**FINDS:**

Registry ID: 110003131780

**Environmental Interest/Information System**

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**IN MANIFEST:**

EPA ID: INR000014688  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**Manifest Handler:**

EPA Id #: INR000014688  
Generator Type: CEG  
Generator Status: Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active  
Handler Mailing Address: 2604 S MAIN ST  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46614  
Contact Last Name: LISZEWSKI  
Contact First Name: MARK  
Contact Telephone: 574-232-0330  
Contact Type: B

**Receiver Records:**

Report Year: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SCOTTSDALE SVC CTR (Continued)**

**1001219200**

TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

Shipment Records:

Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

Transporter Records:

Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: INR000014688  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: INR000014688  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

22  
ESE  
1/8-1/4  
0.183 mi.  
965 ft.

**F & A LANUNDRY  
2817 S MICHIGAN  
SOUTH BEND, IN 46614**

**UST U001078403  
N/A**

**Relative:  
Higher**

UST:

Facility ID: 16536  
Owner Id: 9200  
Company Name: F & A Laundry  
Mailing Address: 2817 S Michigan  
Mailing Address 2: Not reported  
Mailing City,St,Zip: South Bend, IN 46614

**Actual:  
765 ft.**

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**F & A LANUNDRY (Continued)**

**U001078403**

Tank Capacity: 6000  
 Substance Desc: Unknown

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
 Install Date: Not reported  
 Tank Capacity: 4000  
 Substance Desc: Unknown

Tank Number: 3  
**Tank Status: Permanently Out of Service**  
 Install Date: Not reported  
 Tank Capacity: 4000  
 Substance Desc: Unknown

Tank Number: 4  
**Tank Status: Permanently Out of Service**  
 Install Date: Not reported  
 Tank Capacity: 4000  
 Substance Desc: Unknown

23  
 ENE  
 1/8-1/4  
 0.186 mi.  
 984 ft.

**SIBLEY FOUNDRY**  
**22 W ECKMAN ST**  
**SOUTH BEND, IN 46614**

**SCP S109845424**  
**N/A**

**Relative:**  
**Lower**

SCP:  
 Facility Id: 200411003  
 Facility Type: Industrial

**Actual:**  
**754 ft.**

24  
 ENE  
 1/8-1/4  
 0.200 mi.  
 1058 ft.

**SHERWIN WILLIAMS CO THE**  
**2632 S MICHIGAN ST PO BOX 2683**  
**SOUTH BEND, IN**

**RCRA NonGen / NLR 1000371133**  
**FINDS IND000714477**  
**MANIFEST**

**Relative:**  
**Lower**

RCRA NonGen / NLR:  
 Date form received by agency: 08/22/2000  
 Facility name: SHERWIN WILLIAMS CO THE  
 Facility address: 2632 S MICHIGAN ST PO BOX 2683  
 SOUTH BEND, IN 46613  
 EPA ID: IND000714477  
 Contact: D ALEXANDER  
 Contact address: 2632 S MICHIGAN ST PO BOX 2683  
 SOUTH BEND, IN 46613  
 Contact country: US  
 Contact telephone: (216) 566-3096  
 Contact email: Not reported  
 EPA Region: 05  
 Classification: Non-Generator  
 Description: Handler: Non-Generators do not presently generate hazardous waste

**Actual:**  
**751 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHERWIN WILLIAMS CO THE (Continued)**

**1000371133**

Owner/Operator Summary:

Owner/operator name: NAME NOT REPORTED  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998  
Owner/operator country: Not reported  
Owner/operator telephone: (312) 555-1212  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: SHERWIN WILLIAMS CO  
Owner/operator address: ADDRESS NOT REPORTED  
CITY NOT REPORTED, AK 99998  
Owner/operator country: Not reported  
Owner/operator telephone: (312) 555-1212  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Hazardous Waste Summary:

Waste code: D000  
Waste name: Not Defined

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002  
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHERWIN WILLIAMS CO THE (Continued)**

**1000371133**

USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003  
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: F002  
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005  
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F017  
Waste name: Not Defined

Waste code: F018  
Waste name: Not Defined

Waste code: P090  
Waste name: Not Defined

Waste code: U002  
Waste name: ACETONE (I)

Waste code: U031  
Waste name: 1-BUTANOL (I)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHERWIN WILLIAMS CO THE (Continued)**

**1000371133**

Waste code: U112  
Waste name: ACETIC ACID ETHYL ESTER (I)

Waste code: U150  
Waste name: MELPHALAN

Waste code: U154  
Waste name: METHANOL (I)

Waste code: U159  
Waste name: 2-BUTANONE (I,T)

Waste code: U161  
Waste name: METHYL ISOBUTYL KETONE (I)

Waste code: U220  
Waste name: BENZENE, METHYL-

Waste code: U239  
Waste name: BENZENE, DIMETHYL- (I,T)

Violation Status: No violations found

**FINDS:**

Registry ID: 110007564215

**Environmental Interest/Information System**

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic data exchange over the Network Node.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

**IN MANIFEST:**

EPA ID: IND000714477  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

**Manifest Handler:**

EPA Id #: IND000714477  
Generator Type: Not reported  
Generator Status: Non Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SHERWIN WILLIAMS CO THE (Continued)**

**1000371133**

Handler Mailing Address: 2632 S MICHIGAN ST  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46614  
Contact Last Name: MUELLER  
Contact First Name: ROBERT  
Contact Telephone: 574-291-5725  
Contact Type: B

Receiver Records:

Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

Shipment Records:

Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

Transporter Records:

Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: IND000714477  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: IND000714477  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**F25**  
**NE**  
 1/8-1/4  
 0.228 mi.  
 1203 ft.

**2603 S MICHIGAN ST**  
**SOUTH BEND, IN 46614**

**Site 1 of 2 in cluster F**

**EDR US Hist Auto Stat 1015372063**  
**N/A**

**Relative:**  
**Lower**  
  
**Actual:**  
**750 ft.**

EDR Historical Auto Stations:  
 Name: PHILLIPS 66 KWIK MART  
 Year: 2002  
 Address: 2603 S MICHIGAN ST

**F26**  
**NE**  
 1/8-1/4  
 0.228 mi.  
 1203 ft.

**KWIK MART #34**  
**2603 S MICHIGAN**  
**SOUTH BEND, IN 46614**

**Site 2 of 2 in cluster F**

**LUST U000187247**  
**UST N/A**  
**AUL**  
**RGALUST**

**Relative:**  
**Lower**  
  
**Actual:**  
**750 ft.**

LUST:  
 Facility ID: 10688  
 Incident Number: 200303018  
 Affected Area: Vapors  
 Description: NFA-Conditional Closure  
 Priority: Medium  
  
 Facility ID: 10688  
 Incident Number: 200303018  
 Affected Area: Soil  
 Description: NFA-Conditional Closure  
 Priority: Medium  
  
 Facility ID: 10688  
 Incident Number: 200303018  
 Affected Area: Methyl-tertiary-butyl-ether  
 Description: NFA-Conditional Closure  
 Priority: Medium  
  
 Facility ID: 10688  
 Incident Number: 200303018  
 Affected Area: Groundwater  
 Description: NFA-Conditional Closure  
 Priority: Medium  
  
 Facility ID: 10688  
 Incident Number: 200303018  
 Affected Area: Free Product  
 Description: NFA-Conditional Closure  
 Priority: Medium

UST:  
 Facility ID: 10688  
 Owner Id: 5702  
 Company Name: B & R Oil Company - Attn: Sandra Ray  
 Mailing Address: 24501 Ecorse Rd  
 Mailing Address 2: Ste 5  
 Mailing City,St,Zip: Taylor, MI 48180  
  
 Tank Number: 1  
**Tank Status: Permanently Out of Service**  
 Install Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK MART #34 (Continued)**

**U000187247**

Tank Capacity: 10000  
Substance Desc: Gasoline

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 8000  
Substance Desc: Gasoline

Tank Number: 3  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: Not reported  
Substance Desc: Used Oil

Tank Number: 4  
**Tank Status: Currently in use**  
Install Date: Not reported  
Tank Capacity: 4000  
Substance Desc: Gasoline

Tank Number: 5  
**Tank Status: Permanently Out of Service**  
Install Date: 09/04/1986  
Tank Capacity: 1000  
Substance Desc: Kerosene

Tank Number: 6  
**Tank Status: Currently in use**  
Install Date: Not reported  
Tank Capacity: 12000  
Substance Desc: Gasoline

Tank Number: 7  
**Tank Status: Currently in use**  
Install Date: Not reported  
Tank Capacity: 8000  
Substance Desc: Gasoline

**AUL:**

IC TYPE: Environmental Restrictive Covenant  
Facility Id: 10688  
Program Area: LUST  
Affected Media: SubSurface Soil, Ground Water  
Date Ic Recorded: 11/12/2009  
Description: Not reported  
Control Method A: AUL - Agricultural or Food Crop  
Coverage A: Entire Property  
Chemicals Of Concern A: Petroleum (Includes BTEX and MTBE), TPH - Total Petroleum Hydrocarbons  
Comments A: Not reported  
Control Method B: AUL - Ground Water Use Restriction

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**KWIK MART #34 (Continued)**

**U000187247**

Coverage B:	Entire Property
Chemicals Of Concern B:	Petroleum (Includes BTEX and MTBE)
Comments B:	Not reported
Control Method C:	AUL - Residential Use Restriction
Coverage C:	Entire Property
Chemicals Of Concern C:	Petroleum (Includes BTEX and MTBE), TPH - Total Petroleum Hydrocarbons
Comments C:	Not reported
Control Method D:	Not reported
Coverage D:	Not reported
Chemicals Of Concern D:	Not reported
Comments D:	Not reported
Control Method E:	Not reported
Coverage E:	Not reported
Chemicals Of Concern E:	Not reported
Comments E:	Not reported
Control Method F:	Not reported
Coverage F:	Not reported
Chemicals Of Concern F:	Not reported
Comments F:	Not reported
Control Method G:	Not reported
Coverage G:	Not reported
Chemicals Of Concern G:	Not reported
Comments G:	Not reported
Control Method H:	Not reported
Coverage H:	Not reported
Chemicals Of Concern H:	Not reported
Comments H:	Not reported
Control Method I:	Not reported
Coverage I:	Not reported
Chemicals Of Concern I:	Not reported
Comments I:	Not reported

**RGA LUST:**

2012	KWIK MART #34	2603 S MICHIGAN
2011	KWIK MART #34	2603 S MICHIGAN
2010	KWIK MART #34	2603 S MICHIGAN
2009	KWIK MART #34	2603 S MICHIGAN
2008	KWIK MART #34	2603 S MICHIGAN
2007	KWIK MART #34	2603 S MICHIGAN
2006	KWIK MART #34	2603 S MICHIGAN
2005	KWIK MART #34	2603 S MICHIGAN
2004	KWIK MART #34	2603 S MICHIGAN
2003	KWIK MART #34	2603 S MICHIGAN

**27**  
**SE**  
**1/8-1/4**  
**0.242 mi.**  
**1278 ft.**

**OMNICARE**  
**3006 S MICHIGAN ST**  
**SOUTH BEND, IN 46614**

**RCRA-CESQG** **1014390343**  
**INR000128959**

**Relative:**  
**Higher**

**RCRA-CESQG:**  
Date form received by agency: 03/27/2013  
Facility name: OMNICARE  
Facility address: 3006 S MICHIGAN ST  
SOUTH BEND, IN 46614  
EPA ID: INR000128959  
Mailing address: S MICHIGAN ST  
SOUTH BEND, IN 46614

**Actual:**  
**791 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OMNICARE (Continued)**

**1014390343**

Contact: MARGARET STREBINGER  
Contact address: S MICHIGAN ST  
SOUTH BEND, IN 46614  
Contact country: US  
Contact telephone: 800-676-0785  
Telephone ext.: 23308  
Contact email: MARGARET.STREBINGER@OMNICARE.COM  
EPA Region: 05  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: DON MAUPIN  
Owner/operator address: Not reported  
Not reported  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: 05/10/1991  
Owner/Op end date: Not reported

Owner/operator name: OMNICARE CORPORATION  
Owner/operator address: E RIVER CENTER BLVD  
COVINGTON, KY 41011  
Owner/operator country: US  
Owner/operator telephone: 859-392-3300  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 01/01/2006  
Owner/Op end date: Not reported

**Handler Activities Summary:**

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**OMNICARE (Continued)**

**1014390343**

User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 04/25/2011  
Facility name: OMNICARE  
Classification: Conditionally Exempt Small Quantity Generator

Date form received by agency: 10/25/2010  
Facility name: OMNICARE  
Classification: Small Quantity Generator

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSLEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D009  
Waste name: MERCURY

Waste code: D010  
Waste name: SELENIUM

Waste code: P001  
Waste name: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste code: P042  
Waste name: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)-

Waste code: P081  
Waste name: NITROGLYCERINE (R)

Waste code: P204  
Waste name: PHYSOSTIGMINE (OR) PYRROLO[2,3-B]INDOL-5-OL, 1,2,3,3A,8,8A-HEXAHYDRO-1,3A,8-TRIMETHYL-METHYLCARBAMAT

Waste code: U035  
Waste name: BENZENE BUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]-

Waste code: U058  
Waste name: CYCLOPHOSPHAMIDE

Waste code: U059  
Waste name: DAUNOMYCIN

Waste code: U150  
Waste name: MELPHALAN

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**OMNICARE (Continued)**

**1014390343**

Waste code: U187  
 Waste name: ACETAMIDE, N-(4-ETHOXYPHENYL)-  
 Waste code: U200  
 Waste name: RESERPINE  
 Violation Status: No violations found

**28**  
**SSE**  
 1/4-1/2  
 0.361 mi.  
 1904 ft.

**SUPER AUTO SALVAGE YARD**  
**3300 SOUTH MAIN STREET**  
**SOUTH BEND, IN 46614**

**CERC-NFRAP**

**1015734005**  
**IND984928440**

**Relative:**  
**Higher**

CERC-NFRAP:  
 Site ID: 0507314  
 Federal Facility: Not a Federal Facility  
 NPL Status: Not on the NPL  
 Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**Actual:**  
**797 ft.**

Program Priority:  
 Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: INTEGRATED ASSESSMENT  
 Date Started: / /  
 Date Completed: 04/26/94  
 Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE  
 Date Started: / /  
 Date Completed: 04/26/94  
 Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
 Date Started: / /  
 Date Completed: 04/26/94  
 Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: DISCOVERY  
 Date Started: / /  
 Date Completed: 09/29/93  
 Priority Level: Not reported

**29**  
**SW**  
 1/4-1/2  
 0.362 mi.  
 1913 ft.

**LINDEN ROAD SITE**  
**LINDEN RD AND CHIPPEWA**  
**SOUTH BEND, IN 46614**

**CERCLIS**

**1000186611**  
**IND980904221**

**Relative:**  
**Higher**

CERCLIS:  
 Site ID: 0501940  
 EPA ID: IND980904221  
 Facility County: ST. JOSEPH  
 Short Name: LINDEN ROAD SITE  
 Congressional District: 03

**Actual:**  
**767 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LINDEN ROAD SITE (Continued)**

**1000186611**

IFMS ID: Not reported  
SMSA Number: 7800  
USGC Hydro Unit: 04050001  
Federal Facility: Not a Federal Facility  
DMNSN Number: 0.00000  
Site Orphan Flag: N  
RCRA ID: Not reported  
USGS Quadrangle: Not reported  
Site Init By Prog: Not reported  
NFRAP Flag: Not reported  
Parent ID: Not reported  
RST Code: Not reported  
EPA Region: 05  
Classification: Not reported  
Site Settings Code: Not reported  
NPL Status: Not on the NPL  
DMNSN Unit Code: Not reported  
RBRAC Code: Not reported  
RResp Fed Agency Code: Not reported  
Non NPL Status: Other Cleanup Activity: State-Lead Cleanup  
Non NPL Status Date: 01/19/01  
Site Fips Code: 18141  
CC Concurrence Date: / /  
CC Concurrence FY: Not reported  
Alias EPA ID: Not reported  
Site FUDS Flag: Not reported  
  
Alias Comments: Not reported  
Site Description: Not reported

**CERCLIS Assessment History:**

Action Code: 001  
Action: DISCOVERY  
Date Started: / /  
Date Completed: 04/01/84  
Priority Level: Not reported  
Operable Unit: SITEWIDE  
Primary Responsibility: EPA Fund-Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported  
  
Action Code: 001  
Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 07/19/85  
Priority Level: Low priority for further assessment  
Operable Unit: SITEWIDE  
Primary Responsibility: State, Fund Financed  
Planning Status: Not reported  
Urgency Indicator: Not reported  
Action Anomaly: Not reported  
  
Action Code: 001  
Action: SITE INSPECTION



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**LINDEN ROAD SITE (Continued)**

**1000186611**

Date Started: / /  
 Date Completed: 03/28/89  
 Priority Level: Higher priority for further assessment  
 Operable Unit: SITEWIDE  
 Primary Responsibility: EPA Fund-Financed  
 Planning Status: Not reported  
 Urgency Indicator: Not reported  
 Action Anomaly: Not reported

Action Code: 001  
 Action: EXPANDED SITE INSPECTION  
 Date Started: 09/22/95  
 Date Completed: 09/12/97  
 Priority Level: Recommended for HRS Scoring  
 Operable Unit: SITEWIDE  
 Primary Responsibility: State, Fund Financed  
 Planning Status: Not reported  
 Urgency Indicator: Not reported  
 Action Anomaly: Not reported

**G30**  
**NNE**  
**1/4-1/2**  
**0.372 mi.**  
**1963 ft.**

**CLARK OIL & REFINING #0448**  
**2322 S MICHIGAN**  
**SOUTH BEND, IN 46614**  
**Site 1 of 2 in cluster G**

**LUST U001081512**  
**UST N/A**  
**RGA LUST**

**Relative:**  
**Lower**

**LUST:**

**Actual:**  
**743 ft.**

- Facility ID: 13528  
 Incident Number: 199802501  
 Affected Area: Soil  
 Description: Active  
 Priority: High
  
- Facility ID: 13528  
 Incident Number: 199802501  
 Affected Area: Methyl-tertiary-butyl-ether  
 Description: Active  
 Priority: High
  
- Facility ID: 13528  
 Incident Number: 199802501  
 Affected Area: Groundwater  
 Description: Active  
 Priority: High
  
- Facility ID: 13528  
 Incident Number: 199802501  
 Affected Area: Free Product  
 Description: Active  
 Priority: High
  
- Facility ID: 13528  
 Incident Number: 199802501  
 Affected Area: Drinking Water  
 Description: Active  
 Priority: High

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CLARK OIL & REFINING #0448 (Continued)**

**U001081512**

UST:

Facility ID: 13528  
Owner Id: 234  
Company Name: Clark Retail Enterprises Inc  
Mailing Address: PO Box 198  
Mailing Address 2: Suite 300  
Mailing City,St,Zip: Winnetka, IL 600930198

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: 06/01/1957  
Tank Capacity: 6000  
Substance Desc: Gasoline

Tank Number: 2  
**Tank Status: Permanently Out of Service**  
Install Date: 06/01/1971  
Tank Capacity: 7500  
Substance Desc: Gasoline

Tank Number: 3  
**Tank Status: Permanently Out of Service**  
Install Date: 08/01/1970  
Tank Capacity: 8000  
Substance Desc: Gasoline

RGA LUST:

2012	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2011	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2010	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2009	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2008	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2007	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2006	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2005	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2004	CLARK STORE #448	2322 S MICHIGAN
2003	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2002	CLARK OIL & REFINING #0448	2322 S MICHIGAN
2001	CLARK STORE #448	2322 S MICHIGAN
2000	CLARK STORE #448	2322 S MICHIGAN

**G31** RAINBOW MUFFLER OF SOUTHBEND INC  
**NNE** 2302 S MICHIGAN  
**1/4-1/2** SOUTH BEND, IN 46634  
**0.384 mi.**  
**2029 ft.** Site 2 of 2 in cluster G

**LUST** U000193127  
**UST** N/A  
**RGA LUST**

**Relative:**  
**Lower**

LUST:

Facility ID: 13469  
Incident Number: 200511515  
Affected Area: Soil  
Description: NFA-Unconditional Closure  
Priority: Low

**Actual:**  
**743 ft.**

UST:

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RAINBOW MUFFLER OF SOUTHBEND INC (Continued)**

**U000193127**

Facility ID: 13469  
Owner Id: 21583  
Company Name: Mike C Seven Inc  
Mailing Address: 6056 Blue Star Hwy  
Mailing Address 2: Not reported  
Mailing City,St,Zip: Saugatuck, MI 49453

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 500  
Substance Desc: Used Oil

**RGA LUST:**

2012	RAINBOW MUFFLER OF SOUTHBEND INC	2302 S MICHIGAN
2011	RAINBOW MUFFLER OF SOUTHBEND INC	2302 S MICHIGAN
2010	RAINBOW MUFFLER OF SOUTHBEND INC	2302 S MICHIGAN
2009	RAINBOW MUFFLER OF SOUTHBEND INC	2302 S MICHIGAN
2008	RAINBOW MUFFLER OF SOUTHBEND INC	2302 S MICHIGAN
2007	RAINBOW MUFFLER OF SOUTHBEND INC	2302 S MICHIGAN
2006	RAINBOW MUFFLER OF SOUTHBEND INC	2302 S MICHIGAN
2005	RAINBOW MUFFLER OF SOUTHBEND INC	2302 S MICHIGAN

**32**  
**NNE**  
**1/4-1/2**  
**0.422 mi.**  
**2230 ft.**

**DISCOUNT MUFFLER**  
**2222 S MICHIGAN ST**  
**SOUTH BEND, IN 46601**

**LUST 1000514251**  
**UST N/A**  
**RGA LUST**

**Relative:**  
**Lower**

**LUST:**

Facility ID: 15437  
Incident Number: 199209526  
Affected Area: Surface Water  
Description: Active  
Priority: Medium

**Actual:**  
**744 ft.**

Facility ID: 15437  
Incident Number: 199209526  
Affected Area: Soil  
Description: Active  
Priority: Medium

**UST:**

Facility ID: 15437  
Owner Id: 6044  
Company Name: Gafill Projects Inc  
Mailing Address: Po Box 627  
Mailing Address 2: Not reported  
Mailing City,St,Zip: South Bend, IN 466240627

Tank Number: 1  
**Tank Status: Permanently Out of Service**  
Install Date: Not reported  
Tank Capacity: 2000  
Substance Desc: Gasoline

Tank Number: 2

Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**DISCOUNT MUFFLER (Continued)**

**1000514251**

**Tank Status:** Permanently Out of Service  
 Install Date: Not reported  
 Tank Capacity: 2000  
 Substance Desc: Gasoline

Tank Number: 3  
**Tank Status:** Permanently Out of Service  
 Install Date: Not reported  
 Tank Capacity: 2000  
 Substance Desc: Gasoline

Tank Number: 4  
**Tank Status:** Permanently Out of Service  
 Install Date: Not reported  
 Tank Capacity: 300  
 Substance Desc: Other

Tank Number: 5  
**Tank Status:** Permanently Out of Service  
 Install Date: Not reported  
 Tank Capacity: 300  
 Substance Desc: Used Oil

**RGA LUST:**

2012	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2011	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2010	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2009	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2008	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2007	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2006	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2005	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2004	DISCOUNT MUFFLER & TIRE	2222 S MICHIGAN ST
2003	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2002	DISCOUNT MUFFLER	2222 S MICHIGAN ST
2001	DISCOUNT MUFFLER & TIRE	2222 S MICHIGAN ST
2000	DISCOUNT MUFFLER & TIRE	2222 S MICHIGAN ST

**33**  
**North**  
**1/4-1/2**  
**0.486 mi.**  
**2567 ft.**

**EMI, INC**  
**2026 S MAIN ST**  
**SOUTH BEND, IN**

**FINDS** **1004485811**  
**SPILLS** **N/A**  
**BROWNFIELDS**  
**AIRS**

**Relative:**  
**Lower**

**FINDS:**

Registry ID: 110012083930

**Actual:**  
**745 ft.**

**Environmental Interest/Information System**

IN-FRS (Indiana - Facility Registry System). The Indiana Department of Environmental Management (I-DEM) has implemented the Indiana-Facility Registry System (I-FRS). The I-FRS provides the interface and processes to link facility data monitored by multiple State and EPA program systems. In addition, I-FRS enables IDEM to reconcile environmental data and exchange it with EPA FRS using the electronic

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**EMI, INC (Continued)**

**1004485811**

data exchange over the Network Node.

**SPILL:**

Facility ID: 199703043  
Incident Date: 03/10/1997  
Report Date: 03/10/1997  
Material: Diesel  
Spill Source: Trans - Truck  
Recovered Amount: 125.00  
Recovered Units: Gallons  
Spilled Amount: 125.00  
Spilled Units: Gallons  
Contained: Y  
Water Affected: None  
Spill Type: Spill  
Area Affected: 16 Sq Ft  
Fish Killed: 0.00  
Water Supply Affected: N  
Public Intake: Not reported

**IN BROWNFIELD:**

Facility ID: 4100306  
Project Manager: Lynette Schrowe  
AI Id: 33911

**AIRS:**

Status: Operating  
Source ID: 00123  
Responsible Official Name: Jerome L. Sheyka  
Responsible Official Phone: 219-289-6300  
Mailing Street: 2026 S Main St  
Mailing City, St, Zip: South Bend, IN 46613  
SIC Code: Not reported  
Permit ID: 9118  
Permit Level: SSOA  
Subtype Qualifier: Not reported  
Issue Date: 11-07-1997  
Plant Id: 00123  
MAX of Year: Not reported  
County FIPS: Not reported  
Individual Plant ID: Not reported  
Latitude: Not reported  
Longitude: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported  
CO: Not reported  
NOX: Not reported  
PM10: Not reported  
SO2: Not reported  
VOC: Not reported

MAP FINDINGS

Map ID Direction Distance Elevation		Database(s)	EDR ID Number EPA ID Number
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**34**  
**SSW**  
**1/2-1**  
**0.690 mi.**  
**3642 ft.**

**INDIANA GRQ INCORPORATED**  
**701 W CHIPPEWA AVE**  
**SOUTH BEND, IN 46614**

<b>RCRA-TSDF</b> <b>CERC-NFRAP</b> <b>CORRACTS</b> <b>RCRA-CESQG</b> <b>RAATS</b> <b>MANIFEST</b>	<b>1000124379</b> <b>IND051217776</b>
--	--

**Relative:**  
**Higher**

RCRA-TSDF:

Date form received by agency: 06/20/2011

Facility name: INDIANA GRQ INCORPORATED

Facility address: 701 W CHIPPEWA AVE  
SOUTH BEND, IN 46614

EPA ID: IND051217776

Mailing address: W CHIPPEWA AVE  
SOUTH BEND, IN 46614

Contact: JERRY B GRAF

Contact address: W CHIPPEWA AVE  
SOUTH BEND, IN 46614

Contact country: US

Contact telephone: 574-276-9298

Contact email: JERRYDGRAF@GMAIL.COM

EPA Region: 05

Land type: Private

Classification: TSDF

Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: JERRY GRAF

Owner/operator address: Not reported  
Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Operator

Owner/Op start date: 12/01/1991

Owner/Op end date: Not reported

Owner/operator name: LTV MISSILES AND ELECTRONICS GROUP

Owner/operator address: 701 W CHIPPEWA  
SOUTH BEND, IN 46680

Owner/operator country: Not reported

Owner/operator telephone: (219) 237-6379

Legal status: Private

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INDIANA GRQ INCORPORATED (Continued)**

**1000124379**

Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: INDIANA GRQ INCORPORATED  
Owner/operator address: 701 W CHIPPEWA AVE  
SOUTH BEND, IN 46614

Owner/operator country: US  
Owner/operator telephone: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 12/01/1991  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Historical Generators:

Date form received by agency: 04/07/2010  
Facility name: INDIANA GRQ INCORPORATED  
Classification: Small Quantity Generator

Date form received by agency: 09/06/1996  
Facility name: INDIANA GRQ INCORPORATED  
Site name: LTV MISSILES AND ELECTRONICS GROUP  
Classification: Not a generator, verified

Date form received by agency: 03/01/1990  
Facility name: INDIANA GRQ INCORPORATED  
Site name: LTV MISSILES & ELECTRONICS GROUP-AM GEN  
Classification: Large Quantity Generator

Date form received by agency: 11/18/1980  
Facility name: INDIANA GRQ INCORPORATED  
Site name: LTV MISSILES AND ELECTRONICS GROUP  
Classification: Large Quantity Generator

Date form received by agency: 11/18/1980  
Facility name: INDIANA GRQ INCORPORATED  
Site name: LTV MISSILES AND ELECTRONICS GROUP  
Classification: Not a generator, verified

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INDIANA GRQ INCORPORATED (Continued)**

**1000124379**

Hazardous Waste Summary:

Waste code: D001  
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Corrective Action Summary:

Event date: 03/31/1987  
Event: RFA Completed

Event date: 03/31/1987  
Event: RFA Determination Of Need For An RFI, RFI is Necessary;

Event date: 09/27/1991  
Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event date: 06/30/1993  
Event: Stabilization Measures Evaluation, This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.

Event date: 03/09/2004  
Event: RFA Determination Of Need For An RFI, RFI is Not Necessary;

Facility Has Received Notices of Violations:

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 08/29/1989  
Date achieved compliance: 07/24/1990  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 01/23/1990  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: TSD - General  
Date violation determined: 08/24/1988  
Date achieved compliance: 12/01/1989  
Violation lead agency: State  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 11/01/1989  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: State  
Proposed penalty amount: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INDIANA GRQ INCORPORATED (Continued)**

**1000124379**

Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 01/27/2011  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/13/1990  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 10/03/1989  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 08/29/1989  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 07/24/1990  
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 08/29/1989  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 08/24/1988  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: TSD - General  
Date achieved compliance: 12/01/1989  
Evaluation lead agency: State

Evaluation date: 08/24/1988  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA-Initiated Oversight/Observation/Training Actions

Evaluation date: 08/24/1988  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 06/30/1988  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INDIANA GRQ INCORPORATED (Continued)**

**1000124379**

Evaluation date: 01/27/1988  
Evaluation: COMPLIANCE SCHEDULE EVALUATION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

Evaluation date: 07/07/1985  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: State

**CERC-NFRAP:**

Site ID: 0501446  
Federal Facility: Not a Federal Facility  
NPL Status: Not on the NPL  
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

**CERCLIS-NFRAP Site Alias Name(s):**

Alias Name: AM GENERAL DIV OF LTV  
Alias Address: 701 W CHIPPEWA AVE  
SOUTH BEND, IN 46680

**Program Priority:**

Description: Great Lakes

**CERCLIS-NFRAP Assessment History:**

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 02/07/90  
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: ARCHIVE SITE  
Date Started: / /  
Date Completed: 02/07/90  
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT  
Date Started: / /  
Date Completed: 01/29/86  
Priority Level: Higher priority for further assessment

Action: DISCOVERY  
Date Started: / /  
Date Completed: 12/31/85  
Priority Level: Not reported

**CORRACTS:**

EPA ID: IND051217776  
EPA Region: 05  
Area Name: ENTIRE FACILITY  
Actual Date: 20040309  
Action: CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary  
NAICS Code(s): 336399 336322 336312

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INDIANA GRQ INCORPORATED (Continued)**

**1000124379**

All Other Motor Vehicle Parts Manufacturing  
Other Motor Vehicle Electrical and Electronic Equipment Manufacturing  
Gasoline Engine and Engine Parts Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IND051217776  
EPA Region: 05  
Area Name: ENTIRE FACILITY  
Actual Date: 19910927  
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority  
NAICS Code(s): 336399 336322 336312  
All Other Motor Vehicle Parts Manufacturing  
Other Motor Vehicle Electrical and Electronic Equipment Manufacturing  
Gasoline Engine and Engine Parts Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IND051217776  
EPA Region: 05  
Area Name: ENTIRE FACILITY  
Actual Date: 19930630  
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations  
NAICS Code(s): 336399 336322 336312  
All Other Motor Vehicle Parts Manufacturing  
Other Motor Vehicle Electrical and Electronic Equipment Manufacturing  
Gasoline Engine and Engine Parts Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IND051217776  
EPA Region: 05  
Area Name: ENTIRE FACILITY  
Actual Date: 19870331  
Action: CA050 - RFA Completed  
NAICS Code(s): 336399 336322 336312  
All Other Motor Vehicle Parts Manufacturing  
Other Motor Vehicle Electrical and Electronic Equipment Manufacturing  
Gasoline Engine and Engine Parts Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IND051217776  
EPA Region: 05  
Area Name: ENTIRE FACILITY  
Actual Date: 19870331  
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary  
NAICS Code(s): 336399 336322 336312  
All Other Motor Vehicle Parts Manufacturing  
Other Motor Vehicle Electrical and Electronic Equipment Manufacturing  
Gasoline Engine and Engine Parts Manufacturing  
Original schedule date: Not reported  
Schedule end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INDIANA GRQ INCORPORATED (Continued)**

**1000124379**

IN MANIFEST:

EPA ID: IND051217776  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

Manifest Handler:

EPA Id #: IND051217776  
Generator Type: Not reported  
Generator Status: Non Active  
Transporter Type: Not reported  
Transporter Status: Non Active  
TSD Type: Interim or Enforcement TSD  
TSD Status: Non Active  
Handler Mailing Address: 701 W CHIPPEWA AVE  
Handler Mailing City: SOUTH BEND  
Handler Mailing State: IN  
Handler Mailing Zip: 46680-2600  
Contact Last Name: NAGLE  
Contact First Name: DAVID  
Contact Telephone: 574-258-3352  
Contact Type: B

Receiver Records:

Report Year: Not reported  
TSD EPA Id: Not reported  
Page Number: Not reported  
Sub Page: Not reported  
Generator EPA ID: Not reported  
Waste Description: Not reported  
Quantity of Waste: Not reported  
Quantity Rec Report Yrly Tons: Not reported  
Unit of Measure: Not reported

Shipment Records:

Generator EPA Id: Not reported  
Actual Generator Type: Not reported  
Waste Description Shipped: Not reported  
Shipped File Page Number: Not reported  
Number Of TSD Facilities: Not reported  
Waste Codes on Page Number: Not reported  
Waste Code: Not reported  
Tons Of Waste Shipped Year: Not reported  
TSD Facility EPA ID: Not reported  
TSD Name: Not reported  
Facility Address 2: Not reported

Transporter Records:

Report Year: Not reported  
Generator EPA ID: Not reported  
Page Number of Report: Not reported  
TSD EPA Id: Not reported  
Num Of Transporters Used: Not reported

EPA ID: IND051217776

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**INDIANA GRQ INCORPORATED (Continued)**

**1000124379**

Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

EPA ID: IND051217776  
Year: Not reported  
Tons Generated: Not reported  
Tons Shipped OffSite: Not reported

## ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SOUTH BEND	1016412533	SITE ID 181411008	E ANGELA BLVD & N EDDY ST		FINDS
SOUTH BEND	S105299361	CHIPPEWA AVENUE WELL FIELD	SOUTH BEND WELL FIELDS		SHWS, RGA HWS
SOUTH BEND	1011996825	FORMER OLIVER PLOW WORKS	701 SOUTH CHAPIN STREET	46601	US BROWNFIELDS
SOUTH BEND	1010151840	BECK'S LAKE SITE	COLFAX AND KALEY STS		FINDS
SOUTH BEND	S107167521	UNIVERSITY OF NOTRE DAME COAL ASH	SE CORNER EDISON & EDDY STS		VCP
SOUTH BEND	S111679012	FORMER STUDEBAKER IGNITION PARK LO	EDWARD ST & S TAYLOR ST	46601	BROWNFIELDS
SOUTH BEND	1016381695	FORMER STUDEBAKER IGNITION PARK LO	EDWARD ST & S TAYLOR ST		FINDS
SOUTH BEND	S105702649	IRELAND ROAD STUDY	W IRELAND RD & S MAIN ST	46614	AUL, BROWNFIELDS
SOUTH BEND	1003870869	IRELAND ROAD SITE	IRELAND RD	46614	CERC-NFRAP
SOUTH BEND	1016304977	KALEY STREET DRUM SITE	KALEY/MARQUETTE STREET		FINDS
SOUTH BEND	1003872632	NORTH LIBERTY SITE	KLINE TRAIL	46614	CERC-NFRAP
SOUTH BEND	1016279193	LINDEN ROAD SITE	LINDEN RD AND CHIPPEWA		FINDS
SOUTH BEND	S110169860	MAIN & WESTERN VACANT LOT	MAIN & WESTERN AVE	46601	BROWNFIELDS
SOUTH BEND	1003872623	STRAWBERRY ROAD SITE	1/8 MILE NORTH OF SR 20 ON STR	46614	CERC-NFRAP
SOUTH BEND	1003872638	GILMER PARK	EAST OF US 31, 1 MILE SOUTH OF	46614	CERC-NFRAP
SOUTH BEND	1016357595	FORMER RAILROAD PROPERTY	PROPERTY BOUNDED BY BROADWAY,		FINDS
SOUTH BEND	1014707329	FORMER RAILROAD PROPERTY	PROPERTY BOUNDED BY BROADWAY,	46613	US BROWNFIELDS
SOUTH BEND	1016412488	SITE ID 181410015	2335 SHIELDS DR		FINDS
SOUTH BEND	1003870864	DOLLAR LAKE SITE	STATE RTE 23 AND MAYFLOWER RD	46614	CERC-NFRAP
SOUTH BEND	1016307155	FORMER PENTECOSTAL CHURCH	1107 WESTERN AVE.		FINDS

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal NPL site list***

#### NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/21/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

#### NPL Site Boundaries

##### Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/09/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

#### NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal Delisted NPL site list***

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: N/A
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 01/09/2014
Number of Days to Update: 78	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

## ***Federal CERCLIS list***

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/31/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/08/2013	Telephone: 703-603-8704
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/10/2014
Number of Days to Update: 151	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

## ***Federal CERCLIS NFRAP site List***

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/28/2014
Number of Days to Update: 94	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Quarterly

## ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 10/02/2013  
Date Made Active in Reports: 12/16/2013  
Number of Days to Update: 75

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 04/14/2014  
Data Release Frequency: Quarterly

## ***Federal RCRA non-CORRACTS TSD facilities list***

### **RCRA-TSDF: RCRA - Treatment, Storage and Disposal**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 10/02/2013  
Date Made Active in Reports: 12/16/2013  
Number of Days to Update: 75

Source: Environmental Protection Agency  
Telephone: 312-886-6186  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 04/14/2014  
Data Release Frequency: Quarterly

## ***Federal RCRA generators list***

### **RCRA-LQG: RCRA - Large Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 10/02/2013  
Date Made Active in Reports: 12/16/2013  
Number of Days to Update: 75

Source: Environmental Protection Agency  
Telephone: 312-886-6186  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 04/14/2014  
Data Release Frequency: Quarterly

### **RCRA-SQG: RCRA - Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 10/02/2013  
Date Made Active in Reports: 12/16/2013  
Number of Days to Update: 75

Source: Environmental Protection Agency  
Telephone: 312-886-6186  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 04/14/2014  
Data Release Frequency: Quarterly

### **RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators**

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 10/02/2013  
Date Made Active in Reports: 12/16/2013  
Number of Days to Update: 75

Source: Environmental Protection Agency  
Telephone: 312-886-6186  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 04/14/2014  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal institutional controls / engineering controls registries***

### **US ENG CONTROLS: Engineering Controls Sites List**

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 12/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2014	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 03/10/2014
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

### **US INST CONTROL: Sites with Institutional Controls**

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 12/17/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/14/2014	Telephone: 703-603-0695
Date Made Active in Reports: 01/28/2014	Last EDR Contact: 03/10/2014
Number of Days to Update: 14	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

### **LUCIS: Land Use Control Information System**

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/20/2013	Source: Department of the Navy
Date Data Arrived at EDR: 11/21/2013	Telephone: 843-820-7326
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 02/14/2014
Number of Days to Update: 95	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Varies

## ***Federal ERNS list***

### **ERNS: Emergency Response Notification System**

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 10/01/2013	Telephone: 202-267-2180
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 02/07/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Annually

## ***State- and tribal - equivalent CERCLIS***

### **SHWS: List of Hazardous Waste Response Sites Scored Using the Indiana Scoring Model**

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 03/01/2007	Source: Department of Environmental Management
Date Data Arrived at EDR: 08/27/2007	Telephone: 317-308-3052
Date Made Active in Reports: 09/18/2007	Last EDR Contact: 03/03/2014
Number of Days to Update: 22	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **State and tribal landfill and/or solid waste disposal site lists**

### SWF/LF: Permitted Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 12/02/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/18/2013	Telephone: 317-232-0066
Date Made Active in Reports: 01/04/2014	Last EDR Contact: 12/13/2013
Number of Days to Update: 17	Next Scheduled EDR Contact: 03/31/2014
	Data Release Frequency: Semi-Annually

## **State and tribal leaking storage tank lists**

### LUST: LUST Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 11/04/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/04/2013	Telephone: 317-232-8900
Date Made Active in Reports: 12/09/2013	Last EDR Contact: 03/04/2014
Number of Days to Update: 5	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Annually

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/06/2013	Source: EPA Region 10
Date Data Arrived at EDR: 11/07/2013	Telephone: 206-553-2857
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/27/2012	Source: EPA Region 8
Date Data Arrived at EDR: 08/28/2012	Telephone: 303-312-6271
Date Made Active in Reports: 10/16/2012	Last EDR Contact: 01/27/2014
Number of Days to Update: 49	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 08/27/2013	Source: EPA Region 7
Date Data Arrived at EDR: 08/27/2013	Telephone: 913-551-7003
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 09/12/2011	Source: EPA Region 6
Date Data Arrived at EDR: 09/13/2011	Telephone: 214-665-6597
Date Made Active in Reports: 11/11/2011	Last EDR Contact: 02/21/2014
Number of Days to Update: 59	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/21/2013	Source: EPA Region 4
Date Data Arrived at EDR: 11/26/2013	Telephone: 404-562-8677
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013	Source: EPA Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/30/2014
Number of Days to Update: 184	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land  
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/13/2014	Source: EPA, Region 5
Date Data Arrived at EDR: 02/14/2014	Telephone: 312-886-7439
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2013	Telephone: 415-972-3372
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

## **State and tribal registered storage tank lists**

UST: Indiana Registered Underground Storage Tanks

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/04/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/04/2013	Telephone: 317-308-3008
Date Made Active in Reports: 12/10/2013	Last EDR Contact: 03/04/2014
Number of Days to Update: 6	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 12/31/2012	Source: EPA Region 7
Date Data Arrived at EDR: 02/28/2013	Telephone: 913-551-7003
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 43	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 02/05/2013	Source: EPA Region 10
Date Data Arrived at EDR: 02/06/2013	Telephone: 206-553-2857
Date Made Active in Reports: 04/12/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

## INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/21/2013	Source: EPA Region 4
Date Data Arrived at EDR: 11/26/2013	Telephone: 404-562-9424
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 90	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

## INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 02/13/2014	Source: EPA Region 5
Date Data Arrived at EDR: 02/14/2014	Telephone: 312-886-6136
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 01/29/2014	Source: EPA Region 6
Date Data Arrived at EDR: 01/29/2014	Telephone: 214-665-7591
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 42	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Semi-Annually

## INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013	Source: EPA, Region 1
Date Data Arrived at EDR: 05/01/2013	Telephone: 617-918-1313
Date Made Active in Reports: 01/27/2014	Last EDR Contact: 01/30/2014
Number of Days to Update: 271	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 07/29/2013	Source: EPA Region 8
Date Data Arrived at EDR: 08/01/2013	Telephone: 303-312-6137
Date Made Active in Reports: 11/01/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 92	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 07/29/2013	Source: EPA Region 9
Date Data Arrived at EDR: 07/30/2013	Telephone: 415-972-3368
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 129	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Quarterly

## FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 01/13/2014
Number of Days to Update: 55	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Varies

### ***State and tribal institutional control / engineering control registries***

#### AUL: Sites with Restrictions

Activity and use limitations include both engineering controls and institutional controls. A listing of Comfort/Site Status Letter sites that have been issued with controls.

Date of Government Version: 11/06/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/06/2013	Telephone: 317-232-8603
Date Made Active in Reports: 01/04/2014	Last EDR Contact: 03/03/2014
Number of Days to Update: 29	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Varies

### ***State and tribal voluntary cleanup sites***

#### VCP: Voluntary Remediation Program Site List

A current list of Voluntary Remediation Program sites that are no longer confidential.

Date of Government Version: 01/01/2012	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/25/2012	Telephone: 317-234-0966
Date Made Active in Reports: 02/02/2012	Last EDR Contact: 01/17/2014
Number of Days to Update: 8	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Semi-Annually

#### INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/17/2013	Source: EPA, Region 1
Date Data Arrived at EDR: 10/01/2013	Telephone: 617-918-1102
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 01/03/2014
Number of Days to Update: 66	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Varies

#### INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### ***State and tribal Brownfields sites***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## BROWNFIELDS: Brownfields Site List

A brownfield site is an industrial or commercial property that is abandoned, inactive, or underutilized, on which expansion or redevelopment is complicated due to the actual or perceived environmental contamination.

Date of Government Version: 12/03/2013  
Date Data Arrived at EDR: 12/04/2013  
Date Made Active in Reports: 12/09/2013  
Number of Days to Update: 5

Source: Department of Environmental Management  
Telephone: 317-233-2570  
Last EDR Contact: 03/03/2014  
Next Scheduled EDR Contact: 06/16/2014  
Data Release Frequency: Semi-Annually

## ADDITIONAL ENVIRONMENTAL RECORDS

### **Local Brownfield lists**

#### US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/24/2013  
Date Data Arrived at EDR: 09/24/2013  
Date Made Active in Reports: 12/06/2013  
Number of Days to Update: 73

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 02/25/2014  
Next Scheduled EDR Contact: 04/07/2014  
Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 01/27/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: No Update Planned

#### ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### SWRCY: Recycling Facilities

A listing of recycling facilities located in the state of Indiana.

Date of Government Version: 10/26/2009  
Date Data Arrived at EDR: 11/02/2009  
Date Made Active in Reports: 11/11/2009  
Number of Days to Update: 9

Source: Department of Environmental Management  
Telephone: 317-234-4050  
Last EDR Contact: 01/20/2014  
Next Scheduled EDR Contact: 05/05/2014  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands  
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 11/04/2013
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/17/2014
	Data Release Frequency: Varies

## **Local Lists of Hazardous waste / Contaminated Sites**

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/04/2013	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/10/2013	Telephone: 202-307-1000
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 03/04/2014
Number of Days to Update: 65	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Quarterly

DEL SHWS: Deleted Commissioner's Bulletin Sites List

A listing of sites deleted/removed from the Commissioner's Bulletin List

Date of Government Version: 04/03/2008	Source: Department of Environmental Management
Date Data Arrived at EDR: 04/04/2008	Telephone: 317-234-0347
Date Made Active in Reports: 04/14/2008	Last EDR Contact: 03/03/2014
Number of Days to Update: 10	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug labs that have been cleaned up.

Date of Government Version: 01/06/2014	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/07/2014	Telephone: 317-416-5031
Date Made Active in Reports: 03/04/2014	Last EDR Contact: 01/07/2014
Number of Days to Update: 56	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/04/2014
Number of Days to Update: 131	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: No Update Planned

## **Local Land Records**



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/06/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/25/2013	Telephone: 202-564-6023
Date Made Active in Reports: 05/10/2013	Last EDR Contact: 01/27/2014
Number of Days to Update: 15	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

## Records of Emergency Release Reports

### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2013	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/03/2014	Telephone: 202-366-4555
Date Made Active in Reports: 02/24/2014	Last EDR Contact: 01/03/2014
Number of Days to Update: 52	Next Scheduled EDR Contact: 01/13/2014
	Data Release Frequency: Annually

### SPILLS: Spills Incidents

Oil, hazardous, or objectionable materials that may be released to soil and water.

Date of Government Version: 11/15/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/04/2013	Telephone: 317-308-3038
Date Made Active in Reports: 12/09/2013	Last EDR Contact: 03/04/2014
Number of Days to Update: 5	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Semi-Annually

### SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 09/11/2002	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/28/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 56	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 09/07/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/11/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## Other Ascertainable Records

### RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/10/2013  
Date Data Arrived at EDR: 10/02/2013  
Date Made Active in Reports: 12/16/2013  
Number of Days to Update: 75

Source: Environmental Protection Agency  
Telephone: 312-886-6186  
Last EDR Contact: 03/13/2014  
Next Scheduled EDR Contact: 04/14/2014  
Data Release Frequency: Varies

## DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 02/06/2014  
Next Scheduled EDR Contact: 05/19/2014  
Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 11/10/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 62

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 01/15/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Semi-Annually

## FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 02/26/2013  
Date Made Active in Reports: 03/13/2013  
Number of Days to Update: 15

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 03/10/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Varies

## CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013  
Date Data Arrived at EDR: 01/24/2014  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 12/26/2013  
Next Scheduled EDR Contact: 04/14/2014  
Data Release Frequency: Varies

## ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013  
Date Data Arrived at EDR: 12/12/2013  
Date Made Active in Reports: 02/24/2014  
Number of Days to Update: 74

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 03/11/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Annually

## UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010  
Date Data Arrived at EDR: 10/07/2011  
Date Made Active in Reports: 03/01/2012  
Number of Days to Update: 146

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 02/25/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Varies

## US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2013  
Date Data Arrived at EDR: 09/05/2013  
Date Made Active in Reports: 10/03/2013  
Number of Days to Update: 28

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 03/05/2014  
Next Scheduled EDR Contact: 06/16/2014  
Data Release Frequency: Semi-Annually

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 07/31/2013  
Date Made Active in Reports: 09/13/2013  
Number of Days to Update: 44

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 02/26/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Annually

## TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2006  
Date Data Arrived at EDR: 09/29/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 64

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 12/26/2013  
Next Scheduled EDR Contact: 04/07/2014  
Data Release Frequency: Every 4 Years

## FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 02/24/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Quarterly

## FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 02/24/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Quarterly

## HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 01/28/2014  
Next Scheduled EDR Contact: 05/12/2014  
Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 07/20/2011  
Date Data Arrived at EDR: 11/10/2011  
Date Made Active in Reports: 01/10/2012  
Number of Days to Update: 61

Source: Environmental Protection Agency  
Telephone: 202-564-5088  
Last EDR Contact: 10/09/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013  
Date Data Arrived at EDR: 07/17/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 107

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 01/28/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Annually

## MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013  
Date Data Arrived at EDR: 08/02/2013  
Date Made Active in Reports: 11/01/2013  
Number of Days to Update: 91

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 03/10/2014  
Next Scheduled EDR Contact: 06/23/2014  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/09/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/10/2014	Telephone: 202-343-9775
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 01/10/2014
Number of Days to Update: 61	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013	Source: EPA
Date Data Arrived at EDR: 02/27/2014	Telephone: (312) 353-2000
Date Made Active in Reports: 03/12/2014	Last EDR Contact: 12/10/2013
Number of Days to Update: 13	Next Scheduled EDR Contact: 03/24/2014
	Data Release Frequency: Quarterly

## RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

## RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/01/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/12/2013	Telephone: 202-564-8600
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 01/27/2014
Number of Days to Update: 63	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies

## BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 02/26/2013  
Date Made Active in Reports: 04/19/2013  
Number of Days to Update: 52

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 02/28/2014  
Next Scheduled EDR Contact: 06/09/2014  
Data Release Frequency: Biennially

## NPDES: NPDES Permit Listing

A listing of active NPDES Permit Section facility locations.

Date of Government Version: 01/13/2014  
Date Data Arrived at EDR: 01/14/2014  
Date Made Active in Reports: 01/20/2014  
Number of Days to Update: 6

Source: Department of Environmental Management  
Telephone: 317-233-0676  
Last EDR Contact: 01/13/2014  
Next Scheduled EDR Contact: 04/28/2014  
Data Release Frequency: Varies

## UIC: UIC Site Listing

A listing of class II well locations

Date of Government Version: 12/09/2013  
Date Data Arrived at EDR: 12/11/2013  
Date Made Active in Reports: 01/04/2014  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: 317-232-0045  
Last EDR Contact: 03/03/2014  
Next Scheduled EDR Contact: 06/16/2014  
Data Release Frequency: Varies

## BULK: Registered Bulk Fertilizer and Pesticide Storage Facilities

A listing of registered dry or liquid bulk fertilizer and pesticide storage facilities.

Date of Government Version: 04/01/2013  
Date Data Arrived at EDR: 04/09/2013  
Date Made Active in Reports: 04/30/2013  
Number of Days to Update: 21

Source: Office of Indiana State Chemist  
Telephone: 765-494-0579  
Last EDR Contact: 01/03/2014  
Next Scheduled EDR Contact: 04/21/2014  
Data Release Frequency: Varies

## IN MANIFEST: Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a treatment, storage, and disposal facility.

Date of Government Version: 12/31/2011  
Date Data Arrived at EDR: 10/10/2013  
Date Made Active in Reports: 10/24/2013  
Number of Days to Update: 14

Source: Department of Environmental Management  
Telephone: 317-233-4624  
Last EDR Contact: 01/03/2014  
Next Scheduled EDR Contact: 04/21/2014  
Data Release Frequency: Annually

## DRYCLEANERS: Drycleaner Facility Listing

A list of drycleaners involved in the Indiana 5-Star Environmental Recognition Program. It is a voluntary program that ranks participating drycleaners on a scale of one to five stars. The program recognizes those drycleaners willing to do more for the environment and worker safety than the rules require. These drycleaners are going above and beyond the rules to protect the environment, their employees and their neighbors and customers.

Date of Government Version: 12/30/2013  
Date Data Arrived at EDR: 12/31/2013  
Date Made Active in Reports: 01/04/2014  
Number of Days to Update: 4

Source: Department of Environmental Management  
Telephone: 800-988-7901  
Last EDR Contact: 12/13/2013  
Next Scheduled EDR Contact: 03/31/2014  
Data Release Frequency: Varies

## AIRS: Permitted Sources & Emissions Listing

Current permitted sources and emissions inventory information.

Date of Government Version: 12/31/2012  
Date Data Arrived at EDR: 07/08/2013  
Date Made Active in Reports: 08/29/2013  
Number of Days to Update: 52

Source: Department of Environmental Management  
Telephone: 317-233-0185  
Last EDR Contact: 01/03/2014  
Next Scheduled EDR Contact: 04/21/2014  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## TIER 2: Tier 2 Facility Listing

A listing of facilities which store or manufacture hazardous materials that submit a chemical inventory report.

Date of Government Version: 12/31/2012	Source: Department of Environmental Management
Date Data Arrived at EDR: 09/05/2013	Telephone: 317-233-0066
Date Made Active in Reports: 12/11/2013	Last EDR Contact: 03/03/2014
Number of Days to Update: 97	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Varies

## INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 12/08/2006	Telephone: 202-208-3710
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/15/2014
Number of Days to Update: 34	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Semi-Annually

## SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/09/2011	Telephone: 615-532-8599
Date Made Active in Reports: 05/02/2011	Last EDR Contact: 01/20/2014
Number of Days to Update: 54	Next Scheduled EDR Contact: 05/05/2014
	Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/29/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/14/2013	Telephone: 703-603-8787
Date Made Active in Reports: 02/27/2013	Last EDR Contact: 01/03/2014
Number of Days to Update: 13	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

## 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2012	Telephone: 703-308-4044
Date Made Active in Reports: 05/25/2012	Last EDR Contact: 02/14/2014
Number of Days to Update: 7	Next Scheduled EDR Contact: 05/26/2014
	Data Release Frequency: Varies

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013	Source: EPA
Date Data Arrived at EDR: 07/03/2013	Telephone: 202-564-6023
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 01/02/2014
Number of Days to Update: 72	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 06/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/13/2013	Telephone: 617-520-3000
Date Made Active in Reports: 09/13/2013	Last EDR Contact: 02/10/2014
Number of Days to Update: 31	Next Scheduled EDR Contact: 05/26/2014
	Data Release Frequency: Quarterly

## COAL ASH: Coal Ash Disposal Sites

A listing of coal ash disposal site locations.

Date of Government Version: 12/16/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/17/2013	Telephone: 317-233-4624
Date Made Active in Reports: 01/04/2014	Last EDR Contact: 12/13/2013
Number of Days to Update: 18	Next Scheduled EDR Contact: 03/31/2014
	Data Release Frequency: Varies

## Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 01/14/2014	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/15/2014	Telephone: 317-233-1052
Date Made Active in Reports: 03/04/2014	Last EDR Contact: 01/03/2014
Number of Days to Update: 48	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

## COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 01/13/2014
Number of Days to Update: 76	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Varies

## SCP: State Cleanup Program Sites

The goals for the State Cleanup Section are to mitigate risk to human health and the environment.

Date of Government Version: 12/03/2013	Source: Department of Environmental Management
Date Data Arrived at EDR: 12/04/2013	Telephone: 317-233-0068
Date Made Active in Reports: 12/09/2013	Last EDR Contact: 03/03/2014
Number of Days to Update: 5	Next Scheduled EDR Contact: 06/16/2014
	Data Release Frequency: Quarterly

## PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 01/30/2014
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/12/2014
	Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 08/17/2010	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/03/2011	Telephone: N/A
Date Made Active in Reports: 03/21/2011	Last EDR Contact: 03/11/2014
Number of Days to Update: 77	Next Scheduled EDR Contact: 06/23/2014
	Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 11/20/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2013	Telephone: 202-566-1917
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 02/14/2014
Number of Days to Update: 72	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Quarterly

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/23/2013	Source: EPA
Date Data Arrived at EDR: 11/06/2013	Telephone: 202-564-5962
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 12/26/2013
Number of Days to Update: 30	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Annually

## US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013	Source: EPA
Date Data Arrived at EDR: 11/06/2013	Telephone: 202-564-5962
Date Made Active in Reports: 12/06/2013	Last EDR Contact: 12/26/2013
Number of Days to Update: 30	Next Scheduled EDR Contact: 04/14/2014
	Data Release Frequency: Annually

## FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 01/15/2014
Number of Days to Update: 339	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: N/A

## LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001	Source: American Journal of Public Health
Date Data Arrived at EDR: 10/27/2010	Telephone: 703-305-6451
Date Made Active in Reports: 12/02/2010	Last EDR Contact: 12/02/2009
Number of Days to Update: 36	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## Financial Assurance 2: Financial Assurance Information Listing

Financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/14/2014	Source: Department of Environmental Management
Date Data Arrived at EDR: 01/15/2014	Telephone: 317-233-1052
Date Made Active in Reports: 03/04/2014	Last EDR Contact: 01/03/2014
Number of Days to Update: 48	Next Scheduled EDR Contact: 04/21/2014
	Data Release Frequency: Varies

## OISC: Office of Indiana State Chemist Database

Restricted use pesticide dealers and pesticide & fertilizer applicators.

Date of Government Version: 12/20/2013	Source: Office of Indiana State Chemist & Seed
Date Data Arrived at EDR: 12/24/2013	Telephone: 765-494-1492
Date Made Active in Reports: 01/04/2014	Last EDR Contact: 12/24/2013
Number of Days to Update: 11	Next Scheduled EDR Contact: 04/07/2014
	Data Release Frequency: Quarterly

## EDR HIGH RISK HISTORICAL RECORDS

### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

#### EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

#### EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

EDR US Hist Auto Stat: EDR Proprietary Historic Gas Stations - Cole

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: N/A  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Proprietary Historic Dry Cleaners - Cole

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: N/A  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## **EDR RECOVERED GOVERNMENT ARCHIVES**

### ***Exclusive Recovered Govt. Archives***

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/24/2013  
Number of Days to Update: 176

Source: Department of Environmental Management  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/24/2013  
Number of Days to Update: 176

Source: Department of Environmental Management  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Management in Indiana.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/20/2014  
Number of Days to Update: 203

Source: Department of Environmental Management  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 08/19/2013	Telephone: 860-424-3375
Date Made Active in Reports: 10/03/2013	Last EDR Contact: 02/21/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 06/02/2014
	Data Release Frequency: Annually

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2011	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/19/2012	Telephone: N/A
Date Made Active in Reports: 08/28/2012	Last EDR Contact: 01/17/2014
Number of Days to Update: 40	Next Scheduled EDR Contact: 04/28/2014
	Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 11/01/2013	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 11/07/2013	Telephone: 518-402-8651
Date Made Active in Reports: 11/18/2013	Last EDR Contact: 03/12/2014
Number of Days to Update: 11	Next Scheduled EDR Contact: 05/19/2014
	Data Release Frequency: Annually

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/24/2013	Telephone: 717-783-8990
Date Made Active in Reports: 08/19/2013	Last EDR Contact: 01/20/2014
Number of Days to Update: 26	Next Scheduled EDR Contact: 05/05/2014
	Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2012	Source: Department of Environmental Management
Date Data Arrived at EDR: 06/21/2013	Telephone: 401-222-2797
Date Made Active in Reports: 08/05/2013	Last EDR Contact: 02/24/2014
Number of Days to Update: 45	Next Scheduled EDR Contact: 06/09/2014
	Data Release Frequency: Annually

### VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 12/30/2013	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 02/11/2014	Telephone: 802-241-3443
Date Made Active in Reports: 03/11/2014	Last EDR Contact: 01/20/2014
Number of Days to Update: 28	Next Scheduled EDR Contact: 05/05/2014
	Data Release Frequency: Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2012

Date Data Arrived at EDR: 08/09/2013

Date Made Active in Reports: 09/27/2013

Number of Days to Update: 49

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/11/2013

Next Scheduled EDR Contact: 03/31/2014

Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

## Electric Power Transmission Line Data

Source: Rextag Strategies Corp.

Telephone: (281) 769-2247

U.S. Electric Transmission and Power Plants Systems Digital GIS Data

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

## AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

## Daycare Centers: Child Care Listing

Source: Family & Social Services Administration

Telephone: 317-232-4740

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

## Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

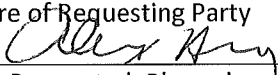
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## STREET AND ADDRESS INFORMATION

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**PUBLIC RECORDS (APRA) REQUEST  
CITY OF SOUTH BEND**

Name of Requesting Party Weaver Boos Consultants			
Address 4085 Meghan Beeler Ct.	City South Bend	State Indiana	Zip 46628
Telephone 574-271-3447	Date of Request 4/15/2014	Time of Request 13:45	Submitted <input type="checkbox"/> In person <input checked="" type="checkbox"/> Mail, E-mail or Facsimile
Signature of Requesting Party 		Name of Department Having Records (If Known) Planning/Urban Development, Fire Department, Recorder's Office	
Records Requested. Please be specific. Use back of form if additional space is needed. We would like to access any records pertaining to the environmental conditions of the property at 220 West Eckman Street in South Bend. These records, if any, may include liens, reports, Environmental Restrictive Covenants, permits, and violations. Any information of this nature would be very helpful in our environmental due diligence investigations.			
Check one: I request to <input checked="" type="checkbox"/> INSPECT or <input type="checkbox"/> BUY copies of the records requested.			

**DEPARTMENTS MUST SUBMIT REQUESTS TO LEGAL DEPARTMENT (235-7670) ON THE DAY OF RECEIPT.**

**CITY OF SOUTH BEND USE ONLY**

Request Received By	Department	Date and Time Received
Department Comments		
<b>ATTORNEY DECISION</b>		
INFORMATION IS _____ DISCLOSABLE		INFORMATION IS NOT DISCLOSABLE _____
Attorney Comments and Instructions _____		
Attorney Signature _____		Date of Decision _____
Letter Sent (Date)	Decision Sent To	Date By
Informed Requesting Party that information is _____ DISCRETIONARY DISCLOSURE _____ NON-DISCLOSABLE		
Date	Signature	<input type="checkbox"/> In person <input type="checkbox"/> By telephone

**APPENDIX E**  
**ENVIRONMENTAL RECORDS AND INTERVIEW DOCUMENTATION**



OFFICE OF AIR QUALITY  
FIELD SURVEILLANCE REPORT

SOURCE: Accucast Technologies

PLANT ID NUMBER: 141-00203

LOCATION: 220 West Eckman Street

OBSERVATION BY: Richard Sekula

OBSERVATION DATE: 2-24-10

CITY: South Bend

REPORT BY: Richard Sekula

REPORT DATE: 2-25-10 *RTS*

COUNTY: St. Joseph

ACES # 114136

PERMIT TYPE: FESOP F141-24573-00203

COMPLAINT INVESTIGATION: NO

COMPLAINT NUMBER:

ATTAINMENT X NONATTAINMENT \_\_\_\_\_ : SO<sub>2</sub> \_\_\_\_\_ CO \_\_\_\_\_ O<sub>3</sub> \_\_\_\_\_ NO<sub>2</sub> \_\_\_\_\_ Pb \_\_\_\_\_ PM<sub>10</sub> \_\_\_\_\_ TSP \_\_\_\_\_

CHECK IF APPLICABLE: NSPS \_\_\_\_\_ PSD \_\_\_\_\_ NESHAP \_\_\_\_\_ OTHER \_\_\_\_\_ (please identify) \_\_\_\_\_

PERSONS/TITLE INTERVIEWED: None

---

**OBJECTIVE (S):** Commitment inspection for FY 2010.

**DESCRIPTION OF SOURCE:** This is a grey iron foundry.

**BACKGROUND:** This source was initially a Title V source, but transitioned to a FESOP which was issued 8-12-08 and remains valid. The last inspection was conducted on 8-26-08 and no violations were documented.

**PROCESS DESCRIPTION/FINDINGS/OBSERVATIONS:** On this date the plant site was vacant. The gates were locked and the snow was completely undisturbed. Snow has covered the ground for a least one month.

This source has struggled recently. It is unknown whether this is a temporary or permanent shutdown. The phone has been disconnected, but their web site still exists.

**ADDITIONAL COMMENTS:** An email was sent to Dan Stamatkin informing him of the plant's status.

**CONCLUSION (S):** This source appears to be closed.

**RECOMMENDATION (S):** No further action at this time. Request that the Northern Regional Office conduct a surveillance during the 2011 fiscal year.

STATE OF INDIANA )  
 ) SS:  
COUNTY OF ST. JOSEPH )

ST. JOSEPH COUNTY MISHAWAKA COURT  
CAUSE NO. 71D05-0909-CC-01263

INDIANA DEPARTMENT OF )  
ENVIRONMENTAL MANAGEMENT, )  
 )  
Petitioner, )  
 )  
v. )  
 )  
ACCUCAST TECHNOLOGY, LLC., )  
 )  
Respondent )

**RECEIVED BY**

JAN 12 2010

**IDEM-ENFORCEMENT**

**VERIFIED MOTION FOR RULE TO SHOW CAUSE**

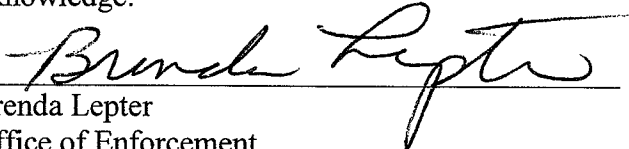
The Petitioner, Commissioner of the Indiana Department of Environmental Management (“IDEM”), by its counsel, Steve Carter, Attorney General of Indiana, through his Deputy, Denise A. Walker, petitions this Court to issue an order to Respondent, Accucast Technology LLC, to appear and show cause why it should not be held in contempt of court for failing to comply with this Court’s Order of November 18<sup>th</sup>, 2009. In support of this Motion, Petitioner states the following:

1. IDEM filed its Verified Petition for Civil Enforcement and Summons on September 17, 2009, a copy of which was duly served upon and received by Respondent on October 8, 2009.
2. On November 18<sup>th</sup>, 2009, this Court issued an Order granting IDEM’s Motion for Default Judgment. The Order required the Respondent to, within thirty (30) days of the Order: comply with the Agreed Order and Amendment to the Agreed Order in Administrative Cause No. 2005-14530-14530-H in all relevant respects. More particularly, Respondent was to complete sand removal until all previously generated sand has been removed and submit documentation to IDEM demonstrating removal of the foundry sand.

3. IDEM inspector John Howard inspected the Site on December 18, 2009 to check on the progress of the sand removal. A true and accurate copy of the e-mail report from John Howard to Brenda Lepter including three photographs of the Site is attached hereto and incorporated herein as Exhibit A.
4. To date, the Respondent has failed to comply with this Court's Order. Specifically, the Respondent has failed to complete sand removal from the Site and failed to submit documentation of removal to IDEM.

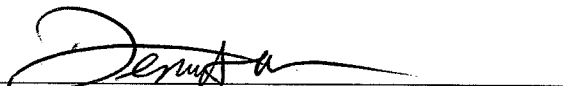
WHEREFORE, the Commissioner of the Indiana Department of Environmental Management requests that the Court issue an Order to Respondent, Accucast Technology LLC, to appear and show cause why they should not be held in contempt for failing to comply with this Court's Order, that the Court set this matter for a hearing, and for all other proper relief.

I hereby affirm under the penalties of perjury that the foregoing representations are true and accurate to the best of my knowledge.

  
Brenda Lepter  
Office of Enforcement  
Indiana Department of Environmental Management

Respectfully submitted:

Gregory F. Zoeller  
Attorney General of Indiana  
Atty. No. 1958-98

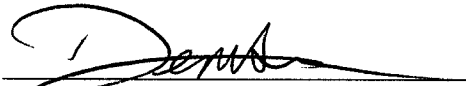
By:   
Denise A. Walker  
Deputy Attorney General  
Atty. No. 26635-53

**CERTIFICATE OF SERVICE**

I hereby certify that a copy of the foregoing has been duly served upon the Respondent,  
at the address listed below, by U.S. mail, first-class, postage prepaid, on this 11<sup>th</sup> day of  
January, 2010:

Sal Detraglia, President  
AccuCast Technology , L.L.C.  
220 W. Eckman  
South Bend, IN 46224

Joseph A. Seher, Registered Agent  
AccuCast Technology, L.L.C.  
220 W. Eckman St.  
South Bend, IN 46624

  
Denise A. Walker  
Deputy Attorney General

OFFICE OF THE ATTORNEY GENERAL  
Indiana Government Center South, Fifth Floor  
302 West Washington Street  
Indianapolis, Indiana 46204  
Telephone: (317) 233-2355

**Walker, Denise**

---

**From:** Walker, Denise [dwalker@idem.IN.gov]  
**Sent:** Wednesday, January 06, 2010 3:09 PM  
**To:** Walker, Denise  
**Subject:** FW: Accucast  
**Attachments:** 20091218\_IMG\_0001.JPG; 20091218\_IMG\_0003.JPG; 20091218\_IMG\_0002.JPG

---

**From:** Howard, John  
**Sent:** Monday, December 28, 2009 9:50 AM  
**To:** LEPTER, BRENDA  
**Cc:** Walker, Denise; JOHNSTON, NANCY; AYLESWORTH, MICHAEL  
**Subject:** RE: Accucast

Brenda,

I stopped at Accucast on Friday December 18<sup>th</sup> to check on progress of the removal of the pile. Below are a couple pictures I took from the next door property that shows little if any movement on the piles. I did stop at the front office to talk to the General Manager but he was not available. I left my card and an explanation of what I was doing with the A.A. in his office and told him to have the G.M call me with any updates Accucast wanted to convey to IDEM. If you need follow-up or have any questions feel free to call me.

John

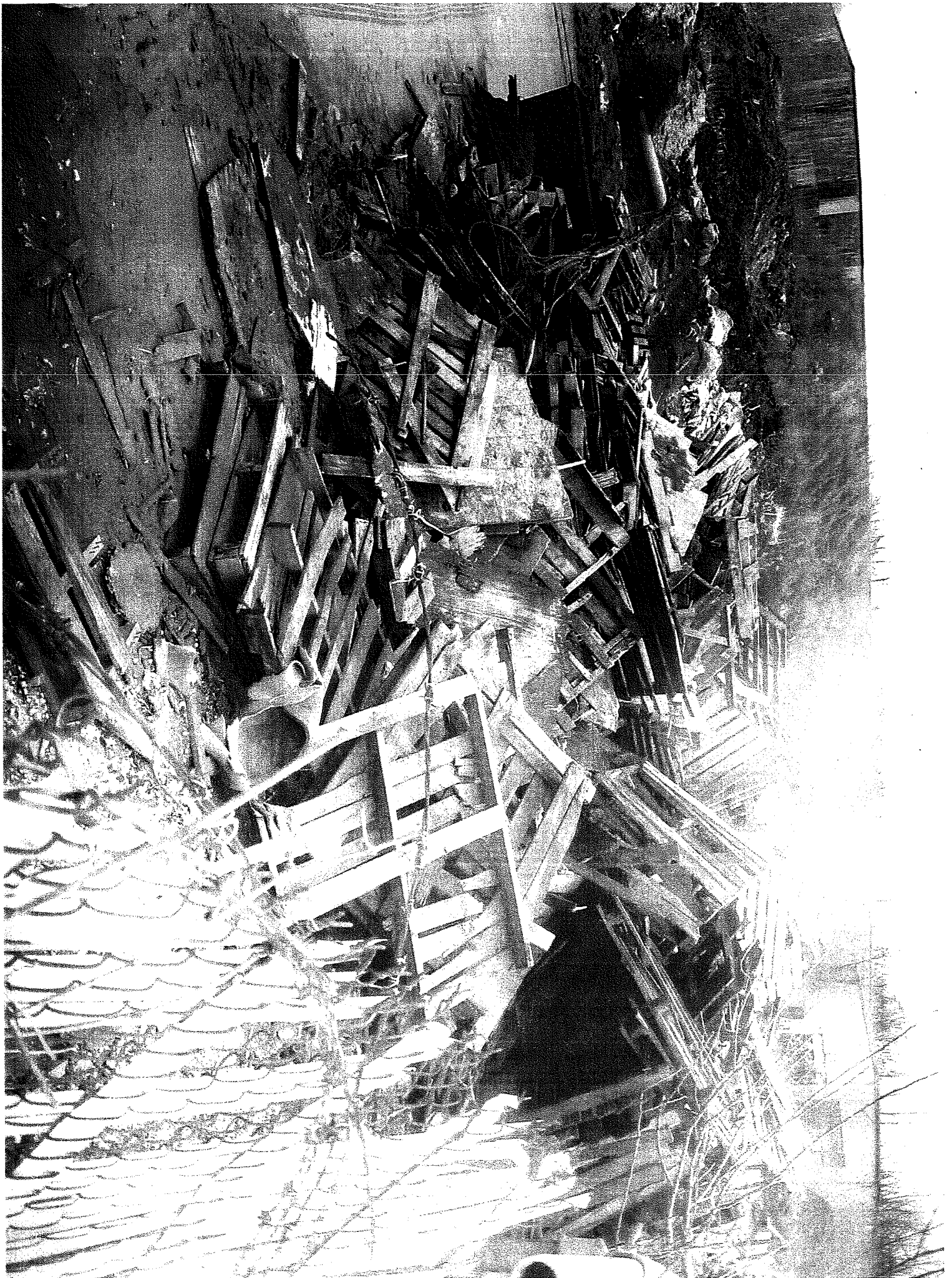
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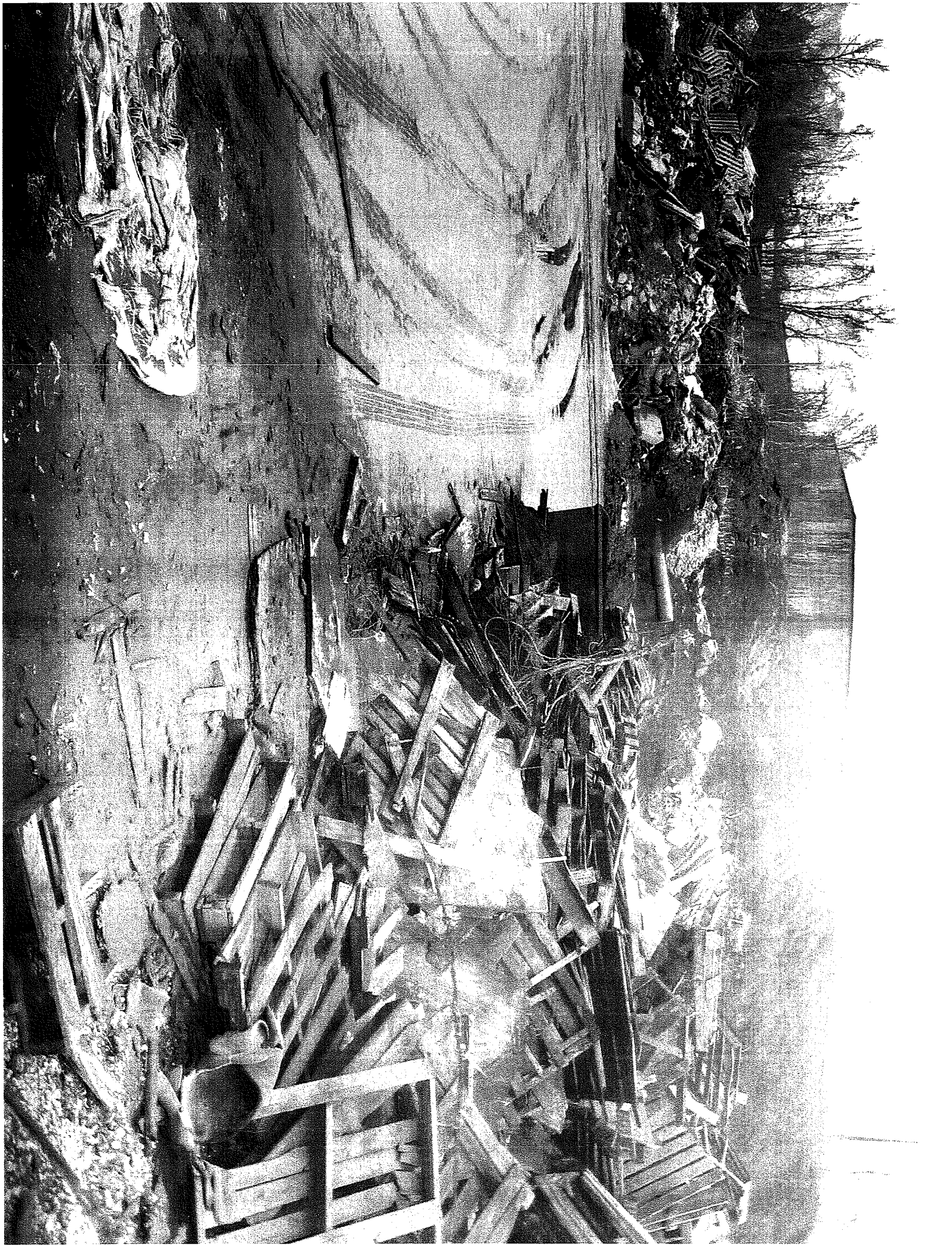
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EXHIBIT     A









STATE OF INDIANA ) ST. JOSEPH COUNTY MISHAWAKA COURT  
 ) SS:  
COUNTY OF ST. JOSEPH ) CAUSE NO. 71D05-0909-CC-01263

INDIANA DEPARTMENT OF )  
ENVIRONMENTAL MANAGEMENT, )  
 )  
Petitioner, )  
 )  
v. )  
 )  
ACCUCAST TECHNOLOGY, LLC., )  
 )  
Respondent )

**ORDER SETTING HEARING ON  
VERIFIED MOTION FOR RULE TO SHOW CAUSE**

The Commissioner of the Indiana Department of Environmental Management, by Gregory Zoeller, Indiana Attorney General, by his Deputy, Denise A. Walker having tendered a Verified Motion for Rule to Show Cause why Respondent, Accucast Technology LLC, should not be held in contempt of this Court for failing to comply with an earlier order of the Court: And the Court, having examined said Motion and being duly advised in the premises, now **FINDS** that the Motion should be set for hearing.

**IT IS THEREFORE ORDERED**, that the parties appear for a hearing on the \_\_\_\_ day of \_\_\_\_\_, 2010, at \_\_\_\_ o'clock a.m./p.m. in the St Joseph County Mishawaka Court. The Respondent is advised that failure to appear may result in the issuance of a bench warrant for arrest.

**RECEIVED BY**

**JAN 12 2010**

**IDEM-ENFORCEMENT**

**IT IS FURTHER ORDERED** that the Clerk of the St Joseph County Mishawaka Court serve  
this Order by certified mail on the Respondent at:

Sal Detraglia, President  
AccuCast Technology , L.L.C.  
220 W. Eckman  
South Bend, IN 46224

Joseph A. Seher, Registered Agent  
AccuCast Technology, L.L.C.  
220 W. Eckman St.  
South Bend, IN 46624

---

Date

---

JUDGE, ST JOSEPH COUNTY COURT

Copies to:

Sal Detraglia, President  
AccuCast Technology , L.L.C.  
220 W. Eckman  
South Bend, IN 46224

Joseph A. Seher, Registered Agent  
AccuCast Technology, L.L.C.  
220 W. Eckman St.  
South Bend, IN 46624

Denise A. Walker,  
Office of Atty. General.,  
302 W. Washington St., 5<sup>th</sup> Fl.,  
Indianapolis, IN 46204

# Envirofacts Search Results



## Plant Information

**ACCUCAST TECHNOLOGIES**  
 220 WECKMAN ST  
 SOUTH BEND, IN 46614  
EPA Plant ID: 110000399907

AFS Links

- [Overview](#)
- [Search](#)
- [Model](#)
- [Law](#)
- [AFS Search User Guide](#)
- [Contact Us](#)
- [AFS Home](#)

[Report an Error](#)

Links for This Facility

- [Air Facility System](#)
- [EnviroMapper for Envirofacts](#)
- [MyEnvironment](#)
- [Facility Registry System](#)
- [Enforcement and Compliance History](#)

Operating Status:	X	HPV Flag:	
Operating Status Description:	PERMANENTLY CLOSED	State Registration Number:	
State County Compliance Source:	1814100203	Government Facility Code Description:	PRIVATELY OWNED/OPERATED
Region Code:	05	Class Code:	SM <i>i</i>
Primary SIC Code:	3321	Class Code Description:	POT EMISSIONS BELOW MAJR <i>i</i>
Primary SIC Description:	GRAY IRON FOUNDRIES	Compliance Status:	0 <i>i</i>
NAICS Code:	331511	Compliance Status Description:	UNKNOWN COMPLIANCE STATUS <i>i</i>
NAICS Code Description:	Iron Foundries	Date Plant Information Last Updated:	09/19/2013

## Air Program Information

Air Program Code	Air Program Description	Air Program Status	Air Program Status Description	Air Program Subpart	Air Program Subpart Description	Class Code	Class Code Description	Compliance Status	Compliance Status Description
6	PSD	X	PERMANENTLY CLOSED			SM <i>i</i>	POT EMISSIONS BELOW MAJR <i>i</i>	0 <i>i</i>	UNKNOWN COMPLIANCE STATUS <i>i</i>
F	FESOP - (NON-TITLE V)	X	PERMANENTLY CLOSED			SM <i>i</i>	POT EMISSIONS BELOW MAJR <i>i</i>	0 <i>i</i>	UNKNOWN COMPLIANCE STATUS <i>i</i>

## Pollutant Data

Air Program Code	Pollutant Code / CAS Number	Pollutant / CAS Description	Attain Indicator	Attain Indicator Description	Pollutant Compliance Status	ES Pollutant Compliance Description	Pollutant Class Code	Pollutant Class Description
6	PM10	<u>PARTICULATE MATTER &lt; 10 UM</u>	A	ATTAINMENT AREA FOR A GIV	0	UNKNOWN COMPLIANCE	SM	POT EMISSIONS BELOW MAJR

F	NO2	<u>NITROGEN DIOXIDE</u>	A	ATTAINMENT AREA FOR A GIV	0	STATUS UNKNOWN COMPLIANCE STATUS	SM	POT EMISSIONS BELOW MAJR
F	PM10	<u>PARTICULATE MATTER &lt; 10 UM</u>	A	ATTAINMENT AREA FOR A GIV	0	UNKNOWN COMPLIANCE STATUS	SM	POT EMISSIONS BELOW MAJR
F	VOC	<u>VOLATILE ORGANIC COMPOUNDS</u>	A	ATTAINMENT AREA FOR A GIV	0	UNKNOWN COMPLIANCE STATUS	SM	POT EMISSIONS BELOW MAJR

---

### Compliance Monitoring Strategy

CMS Start Date	FY2008 CMS Indicator	FY2008 CMS Indicator Description	FY2009 CMS Indicator	FY2009 CMS Indicator Description
	S	80% SYNTHETIC MINOR	S	80% SYNTHETIC MINOR

---

### Plant Actions

Action Number	Key Action Numbers	Air Program Codes	National Action Type	National Action Description	Action Type	Action Description	Date Achieved	Penalty Amount	Results Code	Results Code Description	Pollutant Code	Regional Data Element	Regional Data Element 16
00005		F	PS	STATE/LOCAL PCE/ON-SITE	83	STATE PCE/ON-SITE	24-FEB-10						
00004		F	FS	STATE/LOCAL CONDUCTED FCE/ON-SITE	81	STATE CONDUCTED FCE/ON-SITE	01-DEC-09		11	IN COMPLIANCE			
00003		F			89	INSPECTION ATTEMPTED	24-FEB-10		36	SHUTDOWN-PERMANENT			
00002		F			89	INSPECTION ATTEMPTED	01-DEC-09		11	IN COMPLIANCE			
00001		F	FS	STATE/LOCAL CONDUCTED FCE/ON-SITE	81	STATE CONDUCTED FCE/ON-SITE	26-AUG-08		11	IN COMPLIANCE			



Er  
S Endpoint Security by Bitdefender  
This page is safe



Data Disclaimer

Consolidated facility information (from multiple EPA systems) was searched to select facilities

<< Return

EPA Facility ID: Beginning With: 110000399907

Results are based on data extracted on APR-15-2014

Note: Click on the CORPORATE LINK value for links to that company's environmental web pages.

Click on the MAPPING INFO value to obtain mapping information for the facility.

The facility information data within the output below can be downloaded in a comma-separated value file for use in Excel by clicking here:

[Go To Bottom Of The Page](#)

RCRAInfo Links

- [Overview](#)
- [Search](#)
- [Model](#)
- [Law](#)
- [RCRAInfo Search User Guide](#)
- [Contact Us](#)
- [Office of Resource Conservation and Recovery Home](#)

Report an Error

HANDLER NAME: SOUTH BEND ACQUISITION CORP. SOUTH BEND FOUNDRY HANDLER ID: IND057391765  
 STREET: 220 W ECKMAN ST FACILITY INFORMATION: [View Facility Information](#)  
 CITY: SOUTH BEND CORPORATE LINK: No  
 STATE: IN COUNTY: ST JOSEPH  
 ZIP CODE: 466140000 MAPPING INFO: [MAP](#)  
 EPA REGION:  
 LATITUDE 41.6465 LONGITUDE -86.2525

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
DONALD L MARTIN	220 W ECKMAN ST	SOUTH BEND	IN	46601	2192884611	Public
DONALD L MARTIN	220 W ECKMAN ST	SOUTH BEND	IN	46601	2192884611	Permit

No NAICS Codes are available for the facility listed above.

[Go To Top Of The Page](#)

Total Number of Facilities Displayed: 1

# Envirofacts FRS Facility Detail Report

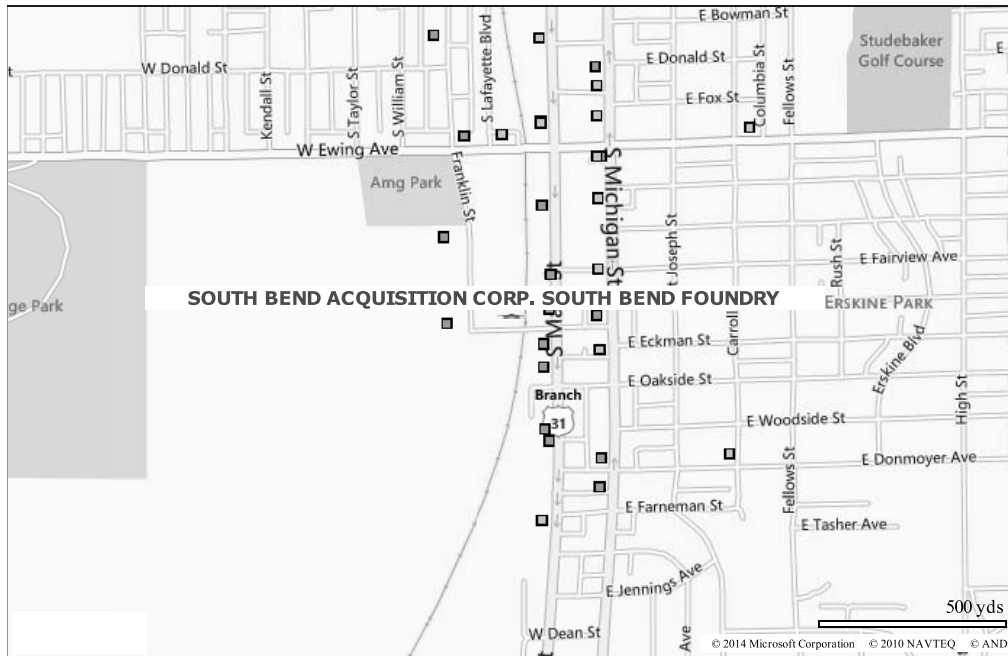


## SOUTH BEND ACQUISITION CORP. SOUTH BEND FOUNDRY

220 W ECKMAN ST  
SOUTH BEND, IN 466140000  
EPA Registry Id: 110000399907

### Facility Registry Service Links

- Search
- [FRS Facility Query](#)
- [FRS EZ Search](#)
- [Organization Search](#)
- [FRS Physical Data Model](#)
- [FRS Geospatial Model](#)
- [Contact Us](#)
- [Facility Registry Service \(FRS\) Home](#)



### Legend

- ★ Selected Facility
- EPA Facility of Interest
- State/Tribe Facility of Interest

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

### Environmental Interests

Information System	Information System ID	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
<a href="#">TOXIC RELEASE INVENTORY SYSTEM</a>	46623SBLYM20WE	TRI REPORTER	TRI REPORTING FORM	07/05/2002	
<a href="#">INDIANA-TOOLS FOR ENVIRONMENTAL MANAGEMENT AND PROTECTION ORGANIZATIONS</a>	29698	STATE MASTER	IN-TEMPO		<p>TEMPO-15870 UNDERGROUND STORAGE TANK PROGRAM</p> <p>TEMPO-IND057391765 HAZARDOUS WASTE PROGRAM</p> <p>TEMPO-4121102 BROWNFIELDS SITE</p> <p>TEMPO-1814100203 AIR PROGRAM</p> <p>TEMPO-3384</p> <p>TEMPO-200411003 STATE CLEANUP SITE</p> <p>TEMPO-1814100010 AIR PROGRAM</p> <p>TEMPO-198912518 LEAKING STORAGE TANK</p>
<a href="#">RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM</a>	IND057391765	UNSPECIFIED UNIVERSE (N)	RCRAINFO	07/18/2002	
<a href="#">AIR FACILITY SYSTEM</a>	1814100203	AIR SYNTHETIC MINOR (PERMANENTLY CLOSED)	AIRS/AFS	09/19/2013	
<a href="#">EMISSION INVENTORY SYSTEM (EIS)</a>	3952711	CRITERIA AND HAZARDOUS AIR POLLUTANT INVENTORY	EIS		
<a href="#">NATIONAL COMPLIANCE DATABASE</a>	105#19910322RV0061	COMPLIANCE ACTIVITY	NCDB		
<a href="#">NATIONAL COMPLIANCE DATABASE</a>	C05#032291RV00601	COMPLIANCE ACTIVITY	NCDB		
<a href="#">INDIANA - FACILITY REGISTRY SYSTEM</a>	330015643440	STATE MASTER	IN-FRS		CRTK-3384

Endpoint Security by Bitdefender  
This page is safe

EPCRA  
 SPILL-198912518  
 RELEASE ASSESSMENT  
 LUST-198912518  
 LEAKING STORAGE TANK  
 UST-15870  
 UNDERGROUND STORAGE TANK  
 PROGRAM  
 ACES-OP-14100010  
 AIR PROGRAM

Additional EPA Reports: [MyEnvironment](#) [Enforcement and Compliance](#) [Site Demographics](#) [Facility Coordinates Viewer](#) [Environmental Justice Map](#)  
[Viewer](#) [Watershed Report](#)

**Standard Industrial Classification Codes (SIC)**

**National Industry Classification System Codes (NAICS)**

Data Source	SIC Code	Description	Primary	Data Source	NAICS Code	Description	Primary
NCDB	MF			EIS	331511	IRON FOUNDRIES.	
TRIS	3321	GRAY AND DUCTILE IRON FOUNDRIES		TRIS	331511	IRON FOUNDRIES.	
AIRS/AFS	3321	GRAY AND DUCTILE IRON FOUNDRIES		AIRS/AFS	331511	IRON FOUNDRIES.	
AIRS/AFS	PRIV			AIRS/AFS	ATELY		

**Facility Mailing Addresses**

**Facility Codes and Flags**

<b>EPA Region:</b>	05
<b>Duns Number:</b>	
<b>Congressional District Number:</b>	02
<b>Legislative District Number:</b>	
<b>HUC Code/Watershed:</b>	04050001 / ST. JOSEPH
<b>US Mexico Border Indicator:</b>	
<b>Federal Facility:</b>	NO
<b>Tribal Land:</b>	NO

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information System
OWNER	ADDRESS NOT REPORTED	CITY NOT REPORTED	AK	99998	RCRAINFO
FACILITY MAILING ADDRESS	220 W ECKMAN ST	SOUTH BEND	IN	46601	RCRAINFO
REGULATORY CONTACT	220 W ECKMAN ST	SOUTH BEND	IN	46601	RCRAINFO
FACILITY MAILING ADDRESS	220 W. ECKMAN ST.	SOUTH BEND	IN	46614-0000	TRIS

**Contacts**

Alternative Name	Source of Data
SIBLEY MACHINE AND FDRY CORP	NCDB
ACCUCAST TECHNOLOGY, L.L.C.	EIS
SOUTH BEND FOUNDRY	STATE
ACCUCAST TECHNOLOGY LLC	IN-TEMPO
SOUTH BEND ACQUISITION CORP. SOUTH BEND FOUNDRY	TRI REPORTING FORM

Affiliation Type	Full Name	Office Phone	Information System	Mailing Address
REGULATORY CONTACT	DONALD L MARTIN	2192884611	RCRAINFO	<a href="#">View</a>
PUBLIC CONTACT	DOUG ROARK	7403631941	TRIS	


**Organizations**

Affiliation Type	Name	DUNS Number	Information System	Mailing Address
OWNER	SIBLEY MACH AND FOUNDRY		RCRAINFO	<a href="#">View</a>
PARENT COMPANY	GENERAL CASTING CO		TRIS	

Query executed on: MAY-11-2014

**Additional information for CERCLIS or TRI sites:**

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- National Library of Medicine (NLM)  [TOXMAP](#)

**APPENDIX F**  
**HISTORICAL RECORDS DOCUMENTATION**





**Former Sibley/Accucast Site**

220 W Eckman St.

South Bend, IN 46614

Inquiry Number: 3880645.5

March 17, 2014

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th Floor  
Shelton, Connecticut 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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**Date EDR Searched Historical Sources:**

Aerial Photography March 17, 2014

**Target Property:**

220 W Eckman St.

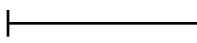
South Bend, IN 46614

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Date: January 01, 1952	EDR
1960	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Date: January 01, 1960	EDR
1967	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Date: August 28, 1967	EDR
1973	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Date: January 01, 1973	EDR
1980	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Date: January 01, 1980	EDR
1986	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Date: January 01, 1986	EDR
1992	Aerial Photograph. Scale: 1"=750'	Panel #: 41086-F3, South Bend West, IN;/Flight Date: March 01, 1992	EDR
1998	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/DOQQ - acquisition dates: April 11, 1998	EDR
2005	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Year: 2005	EDR
2006	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Year: 2006	EDR
2007	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Year: 2007	EDR
2010	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Year: 2010	EDR
2012	Aerial Photograph. Scale: 1"=500'	Panel #: 41086-F3, South Bend West, IN;/Flight Year: 2012	EDR



**INQUIRY #:** 3880645.5

**YEAR:** 1952

 = 500'





**INQUIRY #:** 3880645.5

**YEAR:** 1960

| = 500'



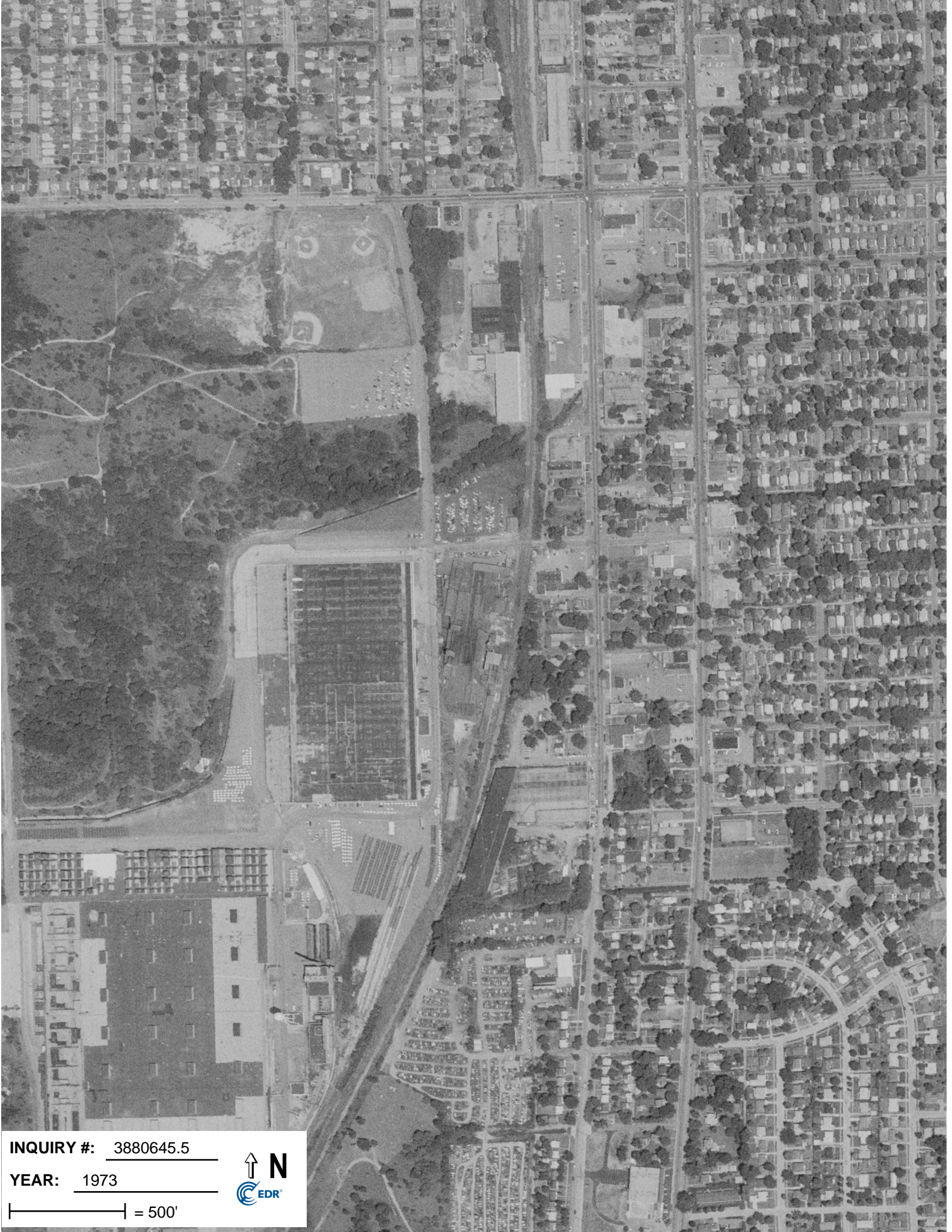


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YEAR: 1967

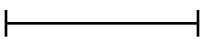
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**INQUIRY #:** 3880645.5

**YEAR:** 1973

 = 500'





INQUIRY #: 3880645.5

YEAR: 1980

| = 500'







INQUIRY #: 3880645.5

YEAR: 1986

| = 500'





INQUIRY #: 3880645.5

YEAR: 1992

| = 750'





INQUIRY #: 3880645.5

YEAR: 1998

| = 500'



EDR



INQUIRY #: 3880645.5

YEAR: 2005

| = 500'





INQUIRY #: 3880645.5

YEAR: 2006

| = 500'





INQUIRY #: 3880645.5

YEAR: 2007

| = 500'





**INQUIRY #:** 3880645.5

**YEAR:** 2010

**|** = 500'





**INQUIRY #:** 3880645.5

**YEAR:** 2012

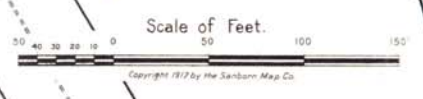
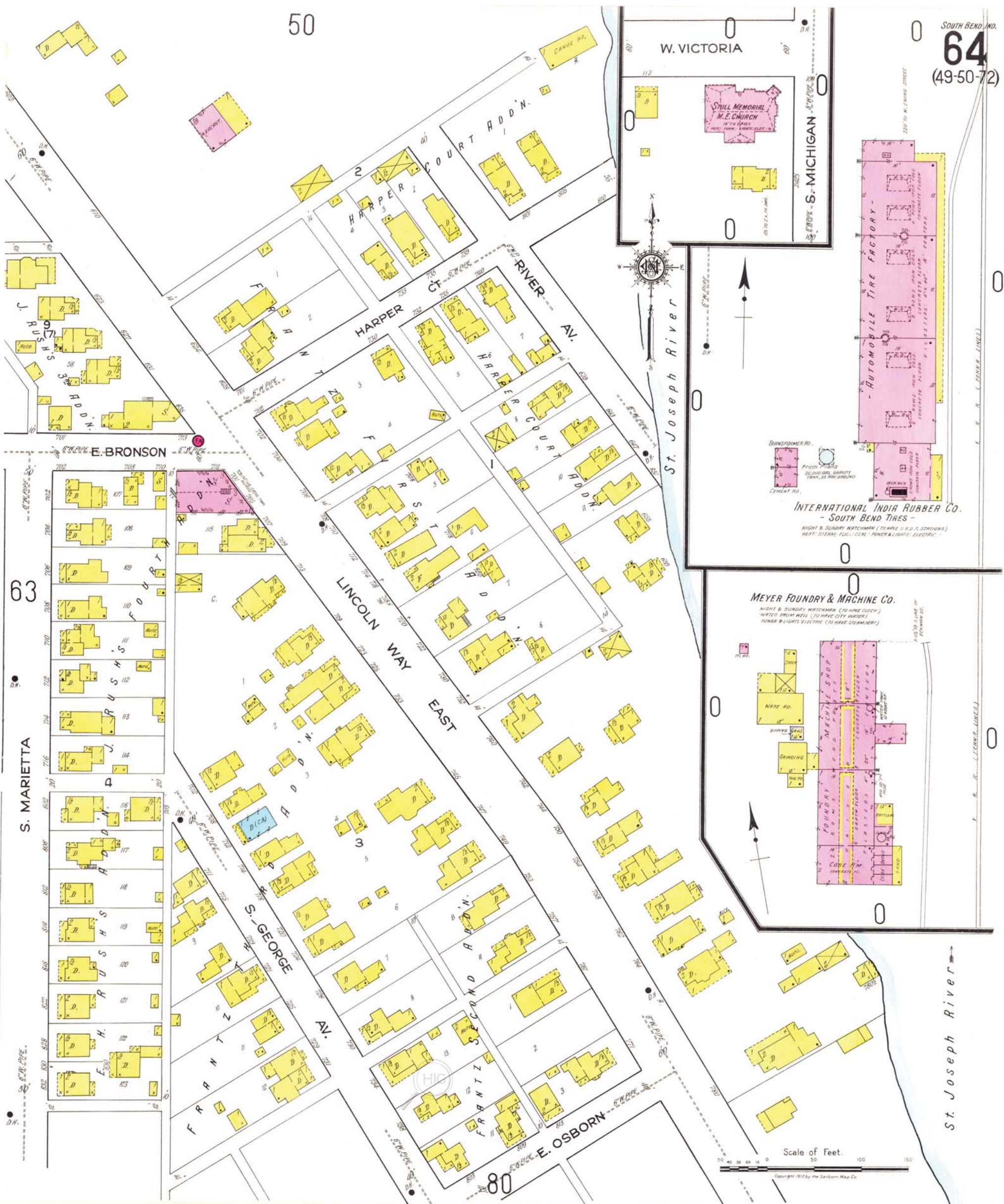
— = 500'

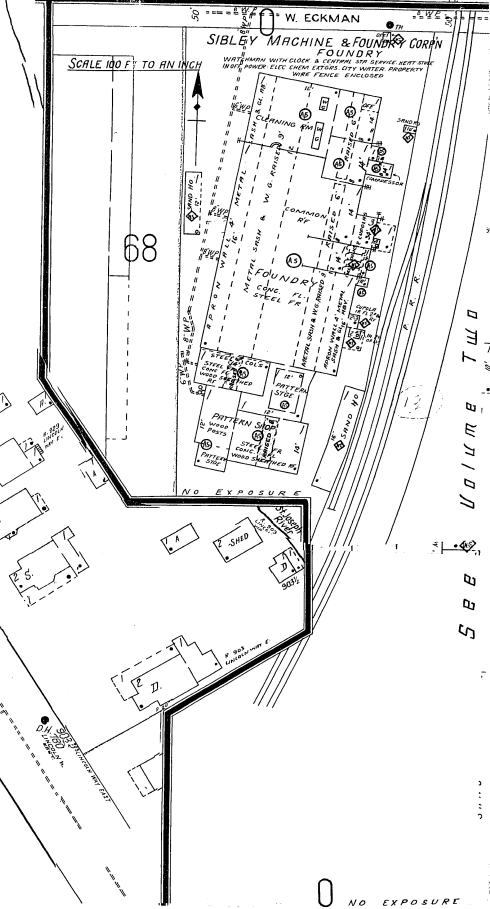
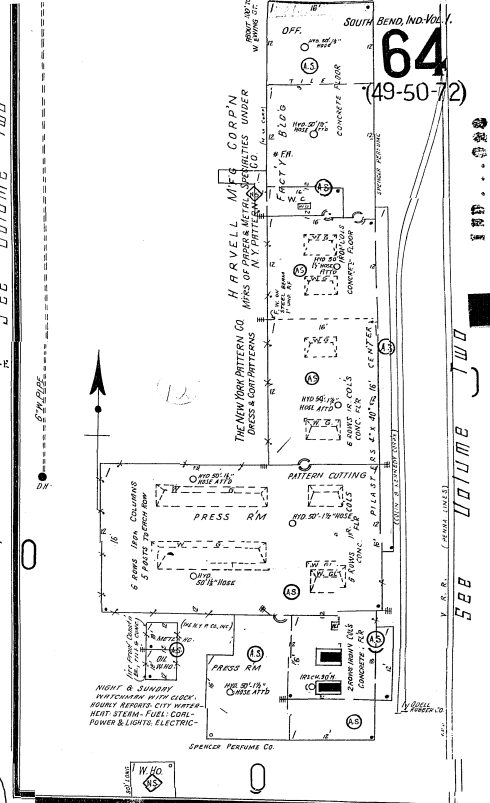
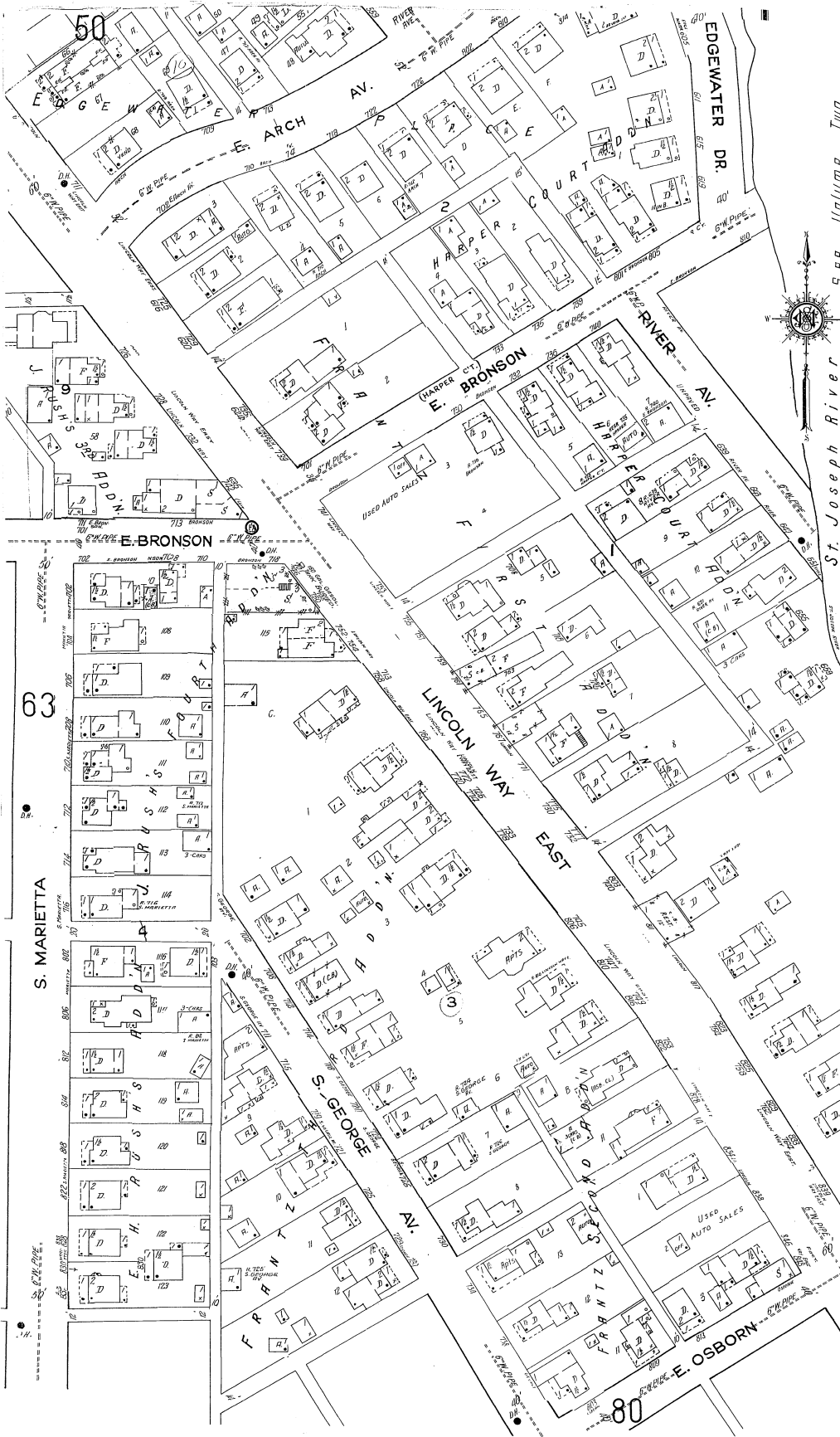




50

SOUTH BEND, IND.  
**64**  
(49-50-72)





64  
(49-50-72)

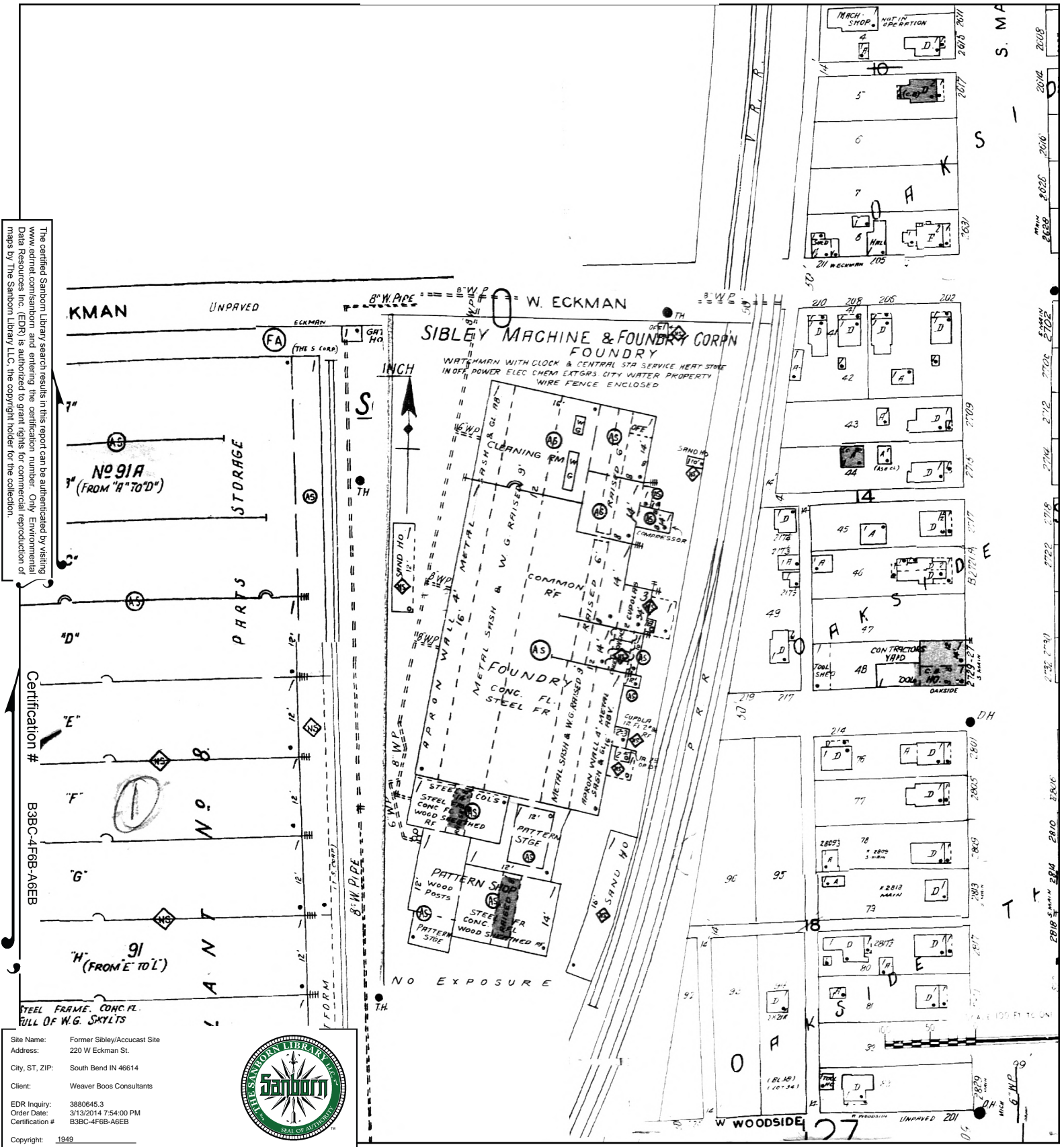
VOLUME TWO

VOLUME TWO

NO EXPOSURE

# 1949 Certified Sanborn Map

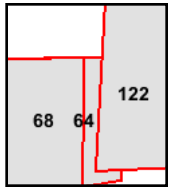
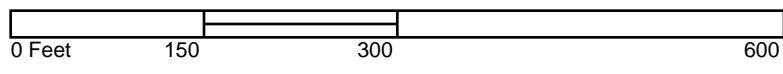
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Site Name: Former Sibley/Accucast Site  
 Address: 220 W Eckman St.  
 City, ST, ZIP: South Bend IN 46614  
 Client: Weaver Boos Consultants  
 EDR Inquiry: 3880645.3  
 Order Date: 3/13/2014 7:54:00 PM  
 Certification #: B3BC-4F6B-A6EB  
 Copyright: 1949



This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.

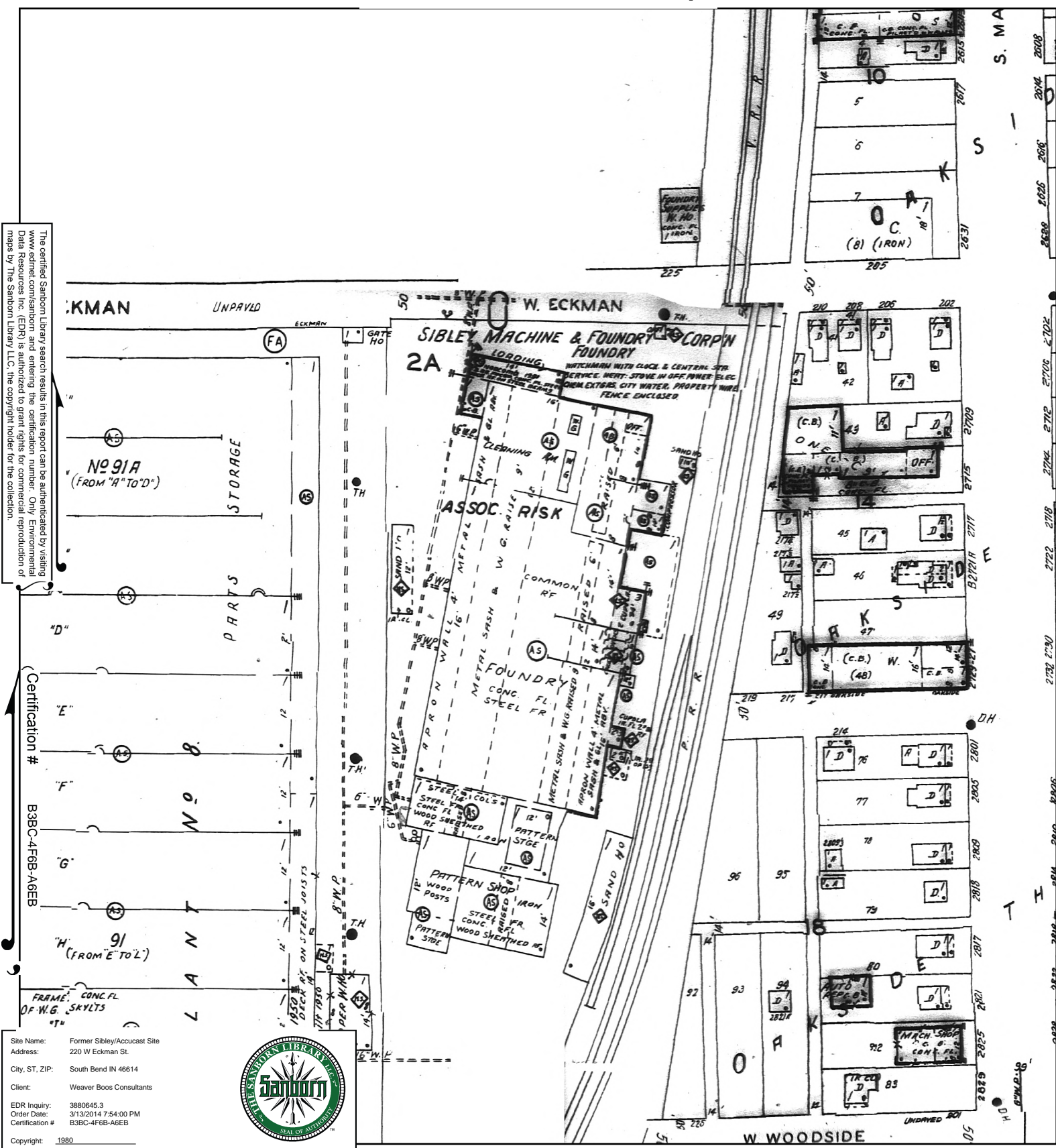


- Volume 1, Sheet 64
- Volume 1, Sheet 68
- Volume 2, Sheet 122



# 1980 Certified Sanborn Map

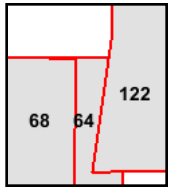
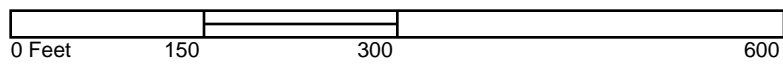
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 Copyright: 1980

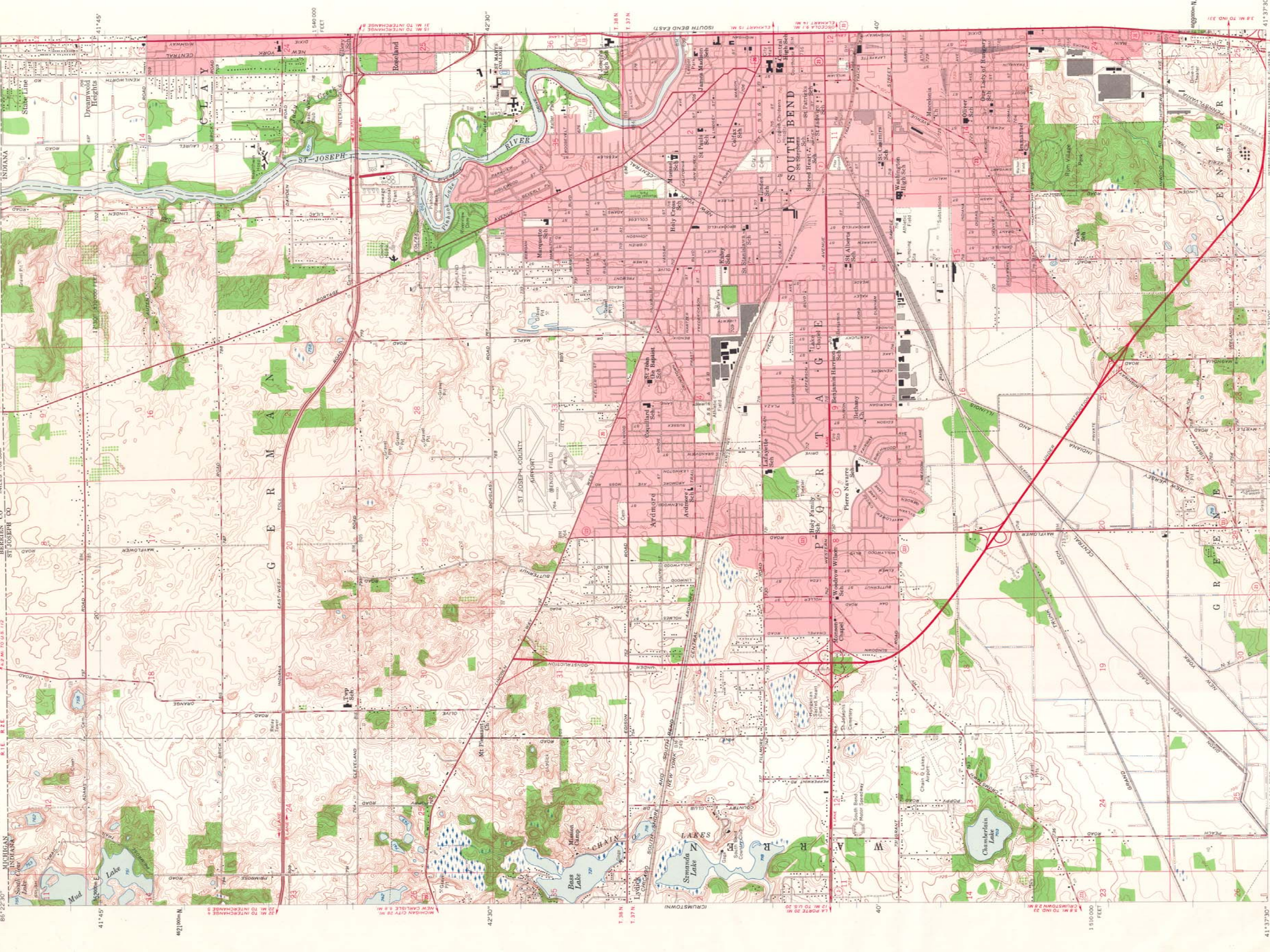


This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



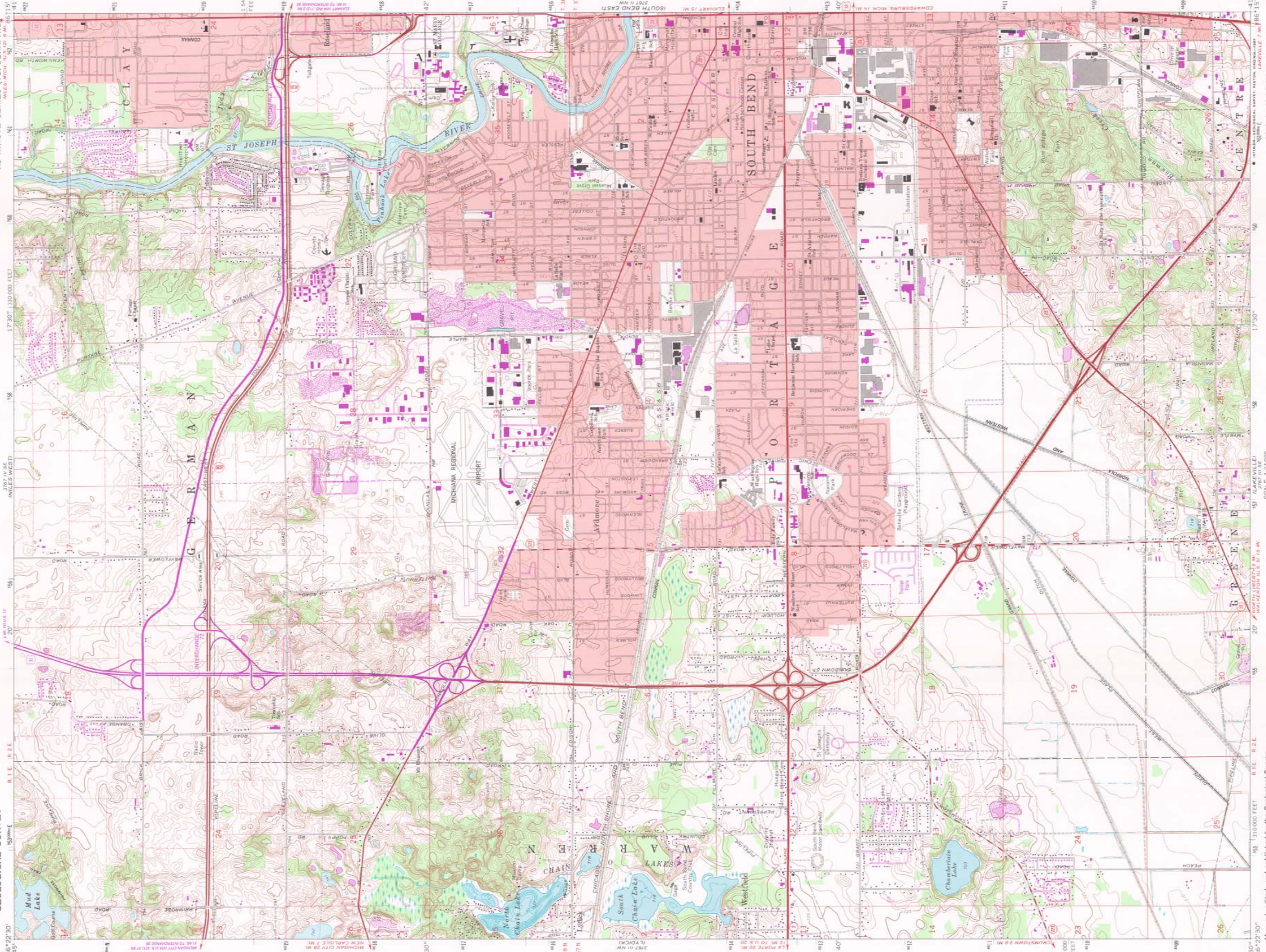
- Volume 1, Sheet 64
- Volume 1, Sheet 68
- Volume 2, Sheet 122





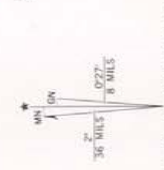
Map metadata including scale (1:24,000), north arrow, and descriptive text: 'Mapped, edited, and published by the Geological Survey Control by USGS, USCGS, and Indiana Flood Control and Water Resources Commission'.





Mapped, edited, and published by the Geological Survey  
Revised in cooperation with Indiana Department of Natural Resources

Control by USGS, NOS/KOAA, and Indiana Flood Control  
and Water Resources Commission  
Planimetry by photogrammetric methods from aerial photographs  
taken 1952. Topography by parallax surveys 1957-1958  
Revised from aerial photographs taken 1967. Field checked 1969  
Depth curves and soundings compiled from USGS-Indiana  
Department of Natural Resources lake charts  
Polyconic projection. 10,000-foot grid ticks based on  
1,000-meter Universal Transverse Mercator grid ticks,  
zone 16, shown in blue  
1927 North American Datum  
to place on the predicted North American Datum 1983  
as shown by dashed corner ticks  
Fine red dashed lines indicate selected fence and field lines where  
generally visible on aerial photographs. This information is unchecked



SCALE 1:24,000  
NATIONAL GEODETIC DATUM OF 1929  
CONTOUR INTERVAL 5 FEET

QUADRANGLE LOCATION  
SOUTH BEND WEST QUADRANGLE  
INDIANA  
This information not field checked. Map edited 1986

ROAD CLASSIFICATION  
Primary highway, all weather, light-duty road, all weather,  
hard surface  
Secondary highway, all weather, improved surface  
hard surface  
Unimproved road, fair/good  
weather  
Interstate Route  
U.S. Route

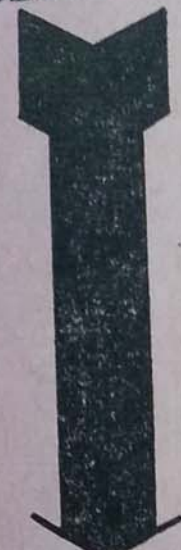
PHOTO REVISIONS 1986  
DMA 3767 III RE-SERIES V851  
SOUTH BEND WEST, IND.  
41086-F37F-024  
1969  
DUPLICATE

1/2 block  
 intersects  
 8 S Michi-  
 ckenham dr  
 Mrs ©  
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 ©  
 ©  
 ©  
 ©  
 N ©  
 h intersects  
 )  
 ry B ©  
 ©  
 G  
 ©  
 H  
 ©  
 te Mrs ©  
 ©  
 ©  
 ©  
 ©  
 V  
 ©  
 rd F ©  
 ©  
 oll intersects  
 ne F ©  
 L Mrs

829 Jackowski Walter ©  
 830 Dragstrem Dorwin R ©  
 901 Penrod Myron W  
 906 Fry Harold C ©  
 909 Boarman Hollis E ©  
 Dale av intersects  
 Miami intersects  
 1112△Lowenstine Henry S ©  
 1119△Smith W Waits  
 1120△Walker Robt R ©  
 1123△Hostetler Ralph S ©  
 1126△Thielens Alexis H ©  
 1131△Ball Burnett C ©  
 Marine intersects  
 1222△Bavin Geo W ©  
 1225△Perkins Chester A ©  
 S Twyckenham dr intersects  
**ECKMAN W**—From 2700 S Michi-  
 gan west beyond Penna RR  
 109 Rudloff Ida V Mrs ©  
 113△Johnson Clifford A  
 Main intersects  
 202 Mulhaupt Chas W  
 205 Christensen Lawrence  
 206△Vinson Leland L ©  
 208 Miller Lyman E  
 210 Grant Glen L ©  
 Penna RR crosses  
 211 Vacant  
 220 Sibley Mach & Fndry Corp  
 (fndry)  
 400△Studebaker Corp (serv plant)  
**ECLIPSE PLACE N**—From 2700  
 Westmoor north to city limits  
 Frederickson intersects  
 Prast blvd intersects  
 Hartzler intersects  
 Bonds av intersects  
 Lincoln way W intersects  
 1102 Kallies Rudolph L  
 Humboldt intersects  
 1224 Smith Lester M  
 1228△Warner Louis  
 1232 Daurer Vincent B ©  
 1239 Davis Floyd F  
 Calhoun intersects  
 1306 Joss Frank J  
 1310 Mager Theo F  
 Elwood av intersects  
 Keller ends

Picture  
 Picture

Sales  
 Training



PICTURE  
 EQUIPMENT

1410 1/2 South Michigan S  
 SOUTH BEND, INDIANA  
 Telephone 3-9130

Visit On  
 New Hor  
 REFIG



Contd Lake intersects S Falcon intersects not open between S Falcon and city limits Albert av intersects Edison intersects Gladstone intersects City limits

From 523 S Scott west to Schowski Victoria Mrs Leroy C Ward Jesse son Wesley on Wm bin Cornelius light E David ant Arth klinski Walter J son McKinley well Irene Ars alloway Hannah Mrs nt k John M her Lawrence E Henry H er Wm rio Ignacio Chapin intersects

COURT—North 1/2 block Riverside dr (houses) Riverside dr intersects

E—From 2708 S Mich to S Twyckenham dr orn Dale S in Major V Eber F icks Jas F Frank G s Leo E

Ralph D mfg agt Chas M z Theo H ecken Maurice L on Dean S StJoseph intersects

Lula B Mrs emaker Fredk bridge Harry B ck Steven Ervin W Walter L Minnie M Mrs J Emmett Saml huckster ere Geo R Earl E on Carl E Theo A on Walter V Albert W Rue E s Glen J Walter J Nathan nn Fred on John U eal us Bernard st Gustav an Sidney G

Carroll intersects Bert er Thos L Jean V r Adin T Claude E on Virgil E ichmond V Chas h Logan W Jas R vis K Byron L

402Dunfee Jack C 405 Chrisle Lloyd H 406McKilip Geo K 408 Walsh Ned J 409 Dembinski Frank E 413 Klowetter Geo W 414Rosbrugh Paul C 417 Jipping John L 418AHuffaker Chester B

Fellows intersects 501ABiritz Frank 502AMcFarland Edwln P 505 Gnoth Woodland H 506ABarber Zeneth O 509AEnglish J Paul 510ADurfee Russell W 513AHelemann Ray H W 514ARowley Chas E 518ACrabill Dewey A 521AFrederick Russell W 522AYoungs Wilbur R 525ABentley Geo H 526AByrne Robt E 530ARymen David

Rush intersects 605AClark Paul L 606ASarka Chas 609ALofquist Oscar T 610AFultz Fred 616AYagadich Irene Mrs 617AHolth Einar 618ACooper G Floyd 621AFrushour Russell E 622AKroof Glenn S 625APate Lawrence T 629 Morris Herman E 633ACrispin Gordon S 637AWalterspaugh Raymond H 641AMartin Jennings B

Erskine blvd intersects 710ALucas Harry L 714ARyker Russell D 717AWozniak Hubert J 721AKachel Albert P 725ARichards H Harold 726AChurchill Harold E

High intersects 801ASwihart Owen C 802AFettel Edw W 805 Moore Earl E 806 Jambrich John 809AUldin Howard F pntr 810 Sowers Paul L 813ACrawford Durwood F 814APeterson Owen W 817 VanMeter Clarence I 818AWitt Stanley C 821ADean Howard H 825ABrydon Walter E 826AJackowski Walter W 829ABrohman Leonard R 830 Cross Harry F Harper Harold 901AMosher Melvin E 906AFry Harold C 909ABoorman Hollis E

Dale av intersects Miami intersects 1112ALowenstine Henry S 1119ABernstein David H 1120AExner Virgil M 1123ADenniston Orville C 1126ATorson Harry A 1131ABall Burnett Marine intersects 1201ABlock A Louis 1222ABavin Annabel L Mrs 1225AFischhoff Jos E S Twyckenham dr intersects

ECKMAN W—From 2700 S Michigan west beyond Penna RR 109 Anderson Carl E 117AMiller Otto J

Main intersects 202 Shuster Saml L 205 Kavelf Andrew K 206 Britton Perry H 208 Miller Lyman E 210 Grant Glen L Penna RR crosses

220ASibley Machine & Foundry Corp (foundry) 400AStudebaker Corp (plant No 8 parts dept)

ECLIPSE PLACE N — From 2700 Westmoor north to city limits Frederickson intersects Prast blvd intersects Hartzler intersects 904ASwanson Bros F Bonds av intersects

1044 Vacant 1054AWarner Clifford M 1102AKallies Rudolph L Lincoln way W intersects Humboldt intersects

1212 Harvey Wm L 1215AHutchings Clarence F 1216 Cooper Robt R 1220ALowel Fred W 1223AHess Jack V 1224AMillcarek Eug 1228AWarner Louis 1231 Thompson Hugh M 1232ADaurer Vincent B 1236APlace Andrew S 1239 Davis Floyd F 1244AKertei Emery 1248 DeMeyer Chas R Calhoun intersects

1302 Cox Jack R 1306AWyford Leonard K 1310APresnal Bernard L 1314 Heminger Edw jr 1318ACurtis Harold J 1322ADice Jas V 1326AHowel Lawrence E Elwood av intersects Keller ends

1712 Freeman Harvey J 1714ATaylor Chas V Ray 1716 Vacant 1718AMesaros Jos J 1756 Six Mildred M Mrs 1758AAmberg Carl F Marquette blvd ends

1806 Walsh Geo W (Not open between 1806 and City limits) Hamilton ends (not open) Bergan ends City limits

EDDY N—From 1100 E Washington av north beyond city limits 107AJohnson Courtney 119ATovey Albert E 125AMueller Rudolph K E Colfav av intersects 219AWiltfong Leslie E LaSalle av intersects 313ALindroth John O 317 McKesson Lloyd E 322AJohnson Alf McKinley av intersects

326AForaker Thos J 330AMead Lawrence L 334AMorfoot Elias B barber E Madison intersects 402AHoffman Bros Super Service auto electric service 404AMoss David gro 4041/2AStern Robt J 408 Wolfgang Waechter 410ARiedel Louise M Mrs 418 Walter Chester E Hull ends

419APrimrose Howard W 422AKoehler Carl C 424AHoffman Nathan 428 Simcox Maud Mrs 432ADeBard Louis 433 Bartaway Wm D Cedar intersects

501ARice Jas F 5011/2 Kowalsky Paul L 503 Tuttle Howard L 5031/2 Zollinger Minnie J Mrs 507AMurphy Louis A



UNIVERSAL ROOFING "WE GO ANYWHERE" DOMESTIC — INDUSTRIAL 1222 S. Michigan St. South Bend (18), Ind.

1917 under constn  
 3113 Faulstich Arlus F  
 3114 Murray Jos  
 3117 Hodary Michl  
 3118 Smith Michl  
 3121

★ 1950 - found later

S Kaley  
 S Bendix dr  
 Liberty  
 Camden  
 Dundee  
 S Kentucky  
 S Iowa  
 S

625 At Lawrence T  
 629 Vanberheyden Aug  
 633 Keesey Roy F  
 637 Walterspaugh Raymond H  
 641 Vacant  
 Erskine blvd intersects  
 710 Lucas Harry L  
 713 Under constn  
 714 Ryker Russell D  
 717 Wozniak Hubert J  
 718 Bamford Thos  
 721 Kachel Albert P  
 725 Richards H Harold  
 726 Churchill Harold E  
 High intersects  
 801 Swihart Owen C  
 802 Fettel Edw W  
 805 Moore Earl E  
 806 Jambrich John  
 809 Ziegert Raymond  
 810 Sowers Paul L  
 813 Crawford Durwood F  
 814 Peterson Owen W  
 817 VanMeter Clarence I  
 818 Witt Stanley C  
 821 Dean Howard H  
 825 Wamsley Grayston D  
 826 Jackowski Walter W  
 829 Brohman Leonard R  
 830 Turnock Edwin jr  
 901 Mosher Melvin E  
 906 Coar Donald K  
 909 Boarman Hollis E  
 910 Czar Robt  
 Dale av intersects  
 Miami intersects  
 1112 Lowenstine Henry S  
 1119 Bernstein David H  
 1120 Gingrich Wayne R  
 1123 Denniston Orville C  
 1126 Torson Harry A  
 1131 Ball Burnett  
 Marine intersects  
 1201 Block Louis  
 1222 Dalton Elwood W  
 1225 Fischeff Jos E  
 S Twyckenham dr intersects

7  
**ECKMAN W** — From 2700 S Michigan west beyond Penna RR  
 109 Jedrzewski Harold J  
 115 A & Y Auto Service auto repr  
 117 Mangum Corola  
 202 Mulhaupt Chas W  
 205 Montgomery Maurice N  
 206 Brandt Carl L  
 208 Miller Lyman E  
 210 Grant Glen L  
 Penna RR crosses  
 220 Sibley Machine & Foundry Corp (foundry)  
 400 Studebaker Corp (plant No 8 parts dept)

49  
**ECLIPSE PLACE N** — From 2700 Westmoor north to city limits  
 Frederickson intersects  
 Prast blvd intersects  
 Hartzler intersects  
 756 Kozuch Walter J  
 904 Swanson Bror F  
 Bonds av intersects  
 1004 Day Chas F  
 1044 Makielski Eliz Mrs  
 1054 Warner Clifford M  
 1102 Kallies Rudolph L  
 1103 Vacant  
 1160 Gratzol Richd R  
 Lincoln way W intersects  
 Humboldt intersects  
 1211 Cater Allen H  
 1212 Wendt Ernest A  
 1215 Hutchings Clarence F  
 1216 Ferenc Paul  
 1220 Lowell Fred W  
 1223 Grainger Raymond J  
 1224 Hillis Edw  
 1228 Warner Louis  
 1231 Thompson Hugh M  
 1232 Parker Roscoe K  
 1236 Trump Nelson F  
 1239 Gerhart Newton R  
 1243 Dewald Paul J  
 1244 Kertel Emery L  
 1248 Myers Lawrence L  
 Calhoun intersects

1321 Squires Harold M  
 1322 Nagy Jas  
 1325 Eacret Nettie J Mrs  
 1326 Howell Lawrence E  
 Elwood av intersects  
 1712 Freeman Harvey J  
 1714 Weber Francis J  
 1716 Fox Thos  
 1718 Messaros Jos J  
 1742 Platt Jas N  
 1756 Robinson Bernard L  
 1758 Amberg Carl F  
 Keller ends  
 Marquette blvd ends  
 Hamilton ends (not open)  
 Bergan ends  
 City limits  
 22  
**EDDY N** — From 1100 E Washington av north beyond city limits  
 107 Johnson Courtney  
 Bartlett Herbert H  
 119 Tovey Albert E  
 125 Mueller Rudolph K  
 132 Dressel Wm  
 E Colfax av intersects  
 219 Anderson Jas S  
 E LaSalle av intersects  
 313 Lindroth John  
 317 Wallace Otis  
 322 Johnson Lydia J Mrs  
 McKinley av intersects  
 326 Foraker Thos J  
 330 Mead Lawrence  
 334 Morfoot Louise E  
 E Madison intersects  
 402-04 Hoffman Bros Auto Electric Inc auto accessories and parts  
 404 1/2 Vail Thos A  
 408 Nemeth Wm J  
 410 Riedel Louise M Mrs  
 418 Walter Chester E  
 Hull ends  
 419 Primrose Howard W  
 422 Koehler Carl C  
 424 Hoffman Nathan  
 428 Simcox Maud Mrs  
 432 DeBard Louis  
 433 Bartaway Wm D  
 24  
 Cedar intersects  
 501 Cole Albert  
 501 1/2 Cooley Gordon T  
 503 Sobieralski Ted jr  
 503 1/2 Schildknecht Robt E  
 507 Murphy Louis A  
 509 Lewinski Matthew R  
 510 Bos Gustave  
 514 Bos Alphonse A  
 518 Lovell Jeanne W  
 518 1/2 Ho Leslie K  
 Cornellissen Hadyn C  
 520 Murphy Eleanora Mrs  
 Miner intersects  
 522 Colwell Donald O  
 526 Kemm Carrie Mrs  
 534 Harris Lee E  
 538 Scott Wm I  
 542 Wishman Francis J  
 Sorin intersects  
 601 Smith Lee A gas sta  
 605 Davis Mason  
 607 Gorden Jas A  
 610 Taylor Thos E  
 615 Howell Hillie W  
 617 Long Delford H  
 Dodge Elma J Mrs  
 621 High Jas  
 625 Sperling Fred C  
 Bissell begin  
 701 Kasly Peter  
 Browning Omer L clo cln  
 701 1/2 Zaworski Raymond J  
 705 Quimby Ralph W  
 714 Emmanuel Jas H  
 715 Buttler Eug F  
 717 Royce Lewis E  
 721 Janiszewski Frank  
 723 Wolf Oliver C  
 727 Lapocoo Dominick  
 729 Pappas Peter A  
 Chalfant beg  
 733 Dee Bee Florists Store & Gre house  
 741 Engelago Harry F  
 Campeau inters

**J. MUSZYNSKI AGENCY**  
 COMPLETE LINE OF INSURANCE  
 REAL ESTATE  
 Tel. 2-24

417△McIntyre Wm J jr  
 418△Kinyon Frank L ⊙  
**Fellows intersects**  
 501△Say Saml L ⊙  
 502△McFarland Edwin P ⊙  
 505△Gnoth Wm H ⊙  
 506△Forbes Tom M ⊙  
 509△Maple Glen W ⊙  
 510△Milttenberger Robt L ⊙  
 513△Kuskye Chas B ⊙  
 514△Rowley Chas E ⊙  
 518△Crabill Dewey A ⊙  
 521△Frederick Russell W ⊙  
 522△Youngs Wilber R ⊙  
 525 No return  
 526△Shapiro Wm ⊙  
 529△Kuzmic Victor P  
 530△Gendel Morris ⊙

**Rush intersects**

602△Brown Russell C ⊙  
 605△Clark Paul L ⊙  
 606△Sarka Chas ⊙  
 609△Lofquist Oscar T ⊙  
 610△Fultz Fred ⊙  
 613△Costas Geo T ⊙  
 616△Fritz Karl R  
 617△Holth Einar ⊙  
 618△Cooper G Floyd ⊙  
 621△Frushour Russell E jr ⊙  
 622△Koski John ⊙  
 625△Pate Lawrence T ⊙  
 629△VanDerheyden Aug ⊙  
 633△Keeseey Roy F ⊙

1218△Wolfberg Louis ⊙  
 1222△Dalton Elwood W  
 1225△Fischoff Jos E ⊙  
 1231△Muessel Robt W ⊙  
**S Twyckenham dr intersects**

**ECKMAN W — From 2700 S  
 Michigan west beyond Penna  
 RR**

109△Downham Robt R ⊙  
 15△Frank's Garage auto repr  
 117△Moore Ned  
 202 Mulhapt Chas M ⊙  
 205 R & H Lunch restr  
 206△White Estol ⊙  
 208△Miller Lyman E ⊙  
 210△Grant Glen L ⊙  
**Penna RR crosses**  
 220△Sibley Machine & Foundry  
 Corp (foundry)  
 400△Studebaker Corp (plant No  
 8 parts dept)

**ECLIPSE PLACE—From 2700  
 Westmoor north to city limits**

**Frederickson intersects**  
 521△South Bend Air Procure-  
 ment Div  
**Prast blvd intersects**  
**Hartzer intersects**  
 756 Taghon Rene F ⊙

**ECLIPSE PLACE—Contd**  
 1712 Freeman Harvey J ⊙  
 1714△Weber Francis J ⊙  
 1716 Mesaros Wm  
 1718△Mesaros Jos J ⊙  
 1742 Platt Jas N ⊙  
 1756△Myers Wm B ⊙  
 1758△Wight Malcolm E  
**Marquette blvd ends**

**Hamilton ends (not open)  
 Bergan ends  
 City limits**

**EDDY N—From 1100 E Wash-  
 ington av north beyond city  
 limits**

107△Johnson Courtney ⊙  
 119△Tovey Albert E ⊙  
**124 Apartments**  
 A1△Lane Wm H  
 A2△Croteau John  
 A3△Russ Chas F  
 B1△Young Esther  
 B2 Miller Jeanne R  
 B3 No return  
 C2△Firestein Ben Z  
 C3△Kiel Bertha M

**Street continued**  
 125△Guendling John D ⊙

*Polks SB City directory*

*1940 Sibley Mach & Foundry Corp.*

*1945-46 "*

*1949  
 (So not available)*

*54-55 "*

- 1112ΔLowenstine B Mrs
- 1119ΔBernstein David H ©
- 1120ΔGingrich Wayne R ©
- 1123ΔDenniston Orville C ©

- 1126ΔTorson Harry A ©
- 1131ΔHickey Jos E ©

**Marine intersects**

- 1201ΔBlock Louis ©
- 1218ΔWolfberg Louis ©
- 1222ΔDalton Elwood W ©
- 1225ΔFischhoff Jos E ©
- 1231ΔMuessel Robt W ©
- 1235 Vacant

**S Twyckenham dr intersects**

**ECKMAN WEST—From 2700 S Michigan west bey PRR 15**

- 109ΔDownham Robt R ©
- 115ΔWilliams Garage auto repr
- 117 Vacant
- 202 Mulhapt Chas W ©
- 205ΔDicks Do Nut Den restr
- 206ΔWhite Estol ©
- 208ΔMiller Lyman E ©
- 210ΔGrant Glen L ©

**PRR crosses**

- 220ΔSibley Mach & Fdry Corp (plant 3)
- 400ΔStudebaker Packard Corp (plant no 8 parts dept)

**ECLIPSE PLACE—From 2700 Westmoor north to city limits 37**

- Frederickson intersects**
- 521ΔSouth Bend Air Procurement Div

- Mann Geo D ©
- 1239 Pulley Jean
- 1240ΔAsher Raymond D © carp
- 1243ΔKile Ray E ©
- 1244ΔKertai Ernest ©

- 130
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- 171
- 171
- 171
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- 174
- 175
- 175

*Polks SB*

*1940 Sibley*

*1945-46 "*

*1949 "*

*(So not available)*

*54-55 "*

*60 "*

EDI

7-3155  
-1394  
JR ●  
JR ●  
344  
289-9142  
M ●  
37-4876  
7-3565  
-4537  
CTS  
-1229  
88-2728  
  
5890  
  
9-5103  
9-1344  
  
RS ●  
  
9497  
  
-1368  
-7764  
031  
  
-1168  
1746  
351  
525

- 1201 BLOCK LOUIS ● 289-6451
- 1202 PISER BENJ C 289-5693
- 1211 SAINT JOHN LAWRENCE D ●  
289-5362
- 1218 WOLFBERG LOUIS ● 287-4388
- 1222 DALTON ELWOOD W ●  
289-6033
- 1225 FISCHOFF JOSEPH E ●  
289-6865
- 1231 MUESSEL ROBT W ● 287-3844
- 1241 TURBOW ROBT W ● 289-6138
- S TWYCKENHAM DR INTERSECTS

ECKMAN ST W -FROM 2700 S  
MICHIGAN WEST

- 109 DOWNHAM ROBT R ● 289-6794
- 115 CRAIG ARTHUR P
- 117 VACANT
- 202 MULHAPT CHARLES W ●
- 205 FOSTER PAUL
- 206 WHITE ESTOL ● 289-8982
- 208 MILLER LYMAN E ● 289-8396
- 210 GRANT CHRISTINE V MRS ●  
289-5949
- PRR CROSSES
- 220 SIBLEY MACHINE AND FOUNDRY  
CORP IRON FDRY 288-4611
- 400 STUDEBAKER CORP (PLANT NO  
8 PARTS DEPT) 289-7111

ECLIPSE PL -FROM 2700 WESTWOOD  
NORTH

- WESTMORE INTERSECTS
- 521 GOVT SOUTH BEND AIR FORCE  
CONTRACT MANAGEMENT OFC  
233-2101
- FREDERICKSON INTERSECTS
- 756 WROBLEWSKI EUG ● 234-5526
- PRAST BLVD INTERSECTS
- 904 SWANSON BROR F ● 234-0230
- HARTZER INTERSECTS
- 1004 DAY CHARLES F ● 234-6193
- 1010 KLOTA XAVIER F ● 232-2800

1940 S. 6

1945-46

1949

(50 not available)

54-55

60

65

1001 Warner Tony L © 288-3664  
1014 Gould Rubin © 288-4238  
1017 Konzen Norman J © 287-7658  
1024 Grummell Raymond M © 287-2637

**MIAMI INTERSECTS**

1104 Edwards Florence E Mrs © 289-4568  
1112 Carleton Wm A © 288-0967  
1119 Browne Gus C © 288-6941  
1120 Gingrich Wayne R © 289-5886  
1123 Denniston Orville C ©  
1126 Torson Eliz R Mrs © 289-5055  
1131 Hickey Joseph E © 288-2194

**MARINE INTERSECTS**

1201 Rawson Don R © 287-8988  
1202 Piser Benj C © 289-5693  
1211 Saint John Lawrence D © 289-5362  
1218 Wolfberg Louis © 287-4382  
1222 Dalton Elwood W © 289-6033  
1225 Fischoff Joseph E © 289-6865  
1231 Muessel Robt W © 287-3849  
1241 Turbow Robt-W © 289-6138

**S TWYCKENHAM DR INTERSECTS**

**ECKMAN ST W —FROM 2700 S  
MICHIGAN WEST**

ZIP CODE 46614

109 Downham Robt R © 289-6794  
117 Schmuch Edw  
205 Vacant  
206 Vacant  
208 Vacant  
210 Vacant

**PENN CENTRAL CROSSES**

220 Sibley Machine And Foundry Corp iron  
fdry 288-4611  
400 Studebaker Corp (Plant No 8 Parts  
Dept) 289-7111  
408 Studebaker Automotive Sales Corp auto  
parts & accessores 289-7111

**ECLIPSE PL —FROM 2700 WESTMORE  
NORTH**

ZIP CODE 46628

521 Bendix Corp (Whse)  
**FREDERICKSON INTERSECTS**

26

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37

**EDDY ST N —FROM  
WASHINGTON AV**

ZIP CODE 46617  
107 Hill Theo A phys

ZIP CODE 46628  
**KELLER ENDS**

1714 Weber Francis  
1716 Mesaros Glenn S  
1718 Mesaros Joseph  
1756 Vacant  
1758 May Wm S © 289-  
**MARQUETTE BLVD**

**HAMILTON ENDS  
BERGAN ENDS  
CITY LIMITS**

*Handwritten notes:*  
palki 50  
940 Sibley  
45-46  
49  
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**ANDREAE'S CARPET CENTE**  
FREE ESTIMATES

TEL. 2

1901 MIAMI ST.

**Annyside Beverages Inc.**

Beer tributors

STAFF  
PABST  
BLATZ  
EWRY'S  
GSBURY  
LEMAN  
MEISTER  
L CITY  
ANTINE  
AMOND  
DEKER  
EY MALT

South Ave.

**E ECKMAN ST—Contd**  
718 Strychalski Thos A © 288-6088  
721 Dashed Robt E ©  
725 Cohen Maurice P © 289-5103  
726 Vacant

**HIGH INTERSECTS**  
801 Cubbison Eldonna E Mrs © 289-8606  
802 Davis Rita A Mrs © 289-9497  
805 Jones Wm ©  
806 Jambrich John © 289-1368  
809 Vacant  
810 Urbahns Howard H © 287-9455  
813 Vervynckt Larry © 288-2170  
814★Brioli Neil ©  
817 Van Meter Clarence I © 288-7438  
818 Witt Stanley C © 289-1746  
821★Zillman Carl  
822 Myers Lloyd O © 287-3625  
825 Wamsley Lucille W Mrs © 289-7212  
826 Jackowski Walter W © 289-1266  
829 Overlease Harry E © 289-1646  
830 Turnock Edwin Jr © 289-1366  
901 Maurer Ronald W © 287-6178  
902 Hartman Thos L 289-0266  
905★White Dennis  
906 Burnett Wm E © 282-1137  
909 Hickman Herschel L © 287-0155  
910 Cassell Geo F © 289-3531  
913 Mc Gonigal Patk B © 288-4237  
914 Melkey Fredk E © 287-1325  
917 Pettrass Andrew L © 289-4267  
918 Sharpf Allen L © 288-9018  
921 Poznanski David D © 288-7268  
922 Smith Steven C © 234-3473  
925 Strumpfer Max L © 288-0869  
926 Arch Charles J Jr © 288-3664

**DALE AV INTERSECTS**  
1001 Barts Louise C Mrs © 233-2402  
1011 Sloboda Andrew © 287-8471  
1014 Gould Rubin © 289-8079  
1017 Konzen Norman J © 287-7658  
1024 Grummell Raymond M © 287-2637

**MIAMI INTERSECTS**  
1104 Peyser Joseph L 287-7746  
1112 Carleton Wm A © 288-0967  
1119★Rhodes Wm C © 233-4909  
1120 Gingrich Wayne R © 289-5886  
1123 Denniston Orville C © 289-6172  
1126 No Return  
1131 Hickey Joseph E © 232-0077

**MARINE INTERSECTS**  
1201 Rawson Donald R © 287-8988  
1202 Halley Harry J © 282-2167  
1211 Saint John Lawrence D © 289-5362  
1218 Gallagher Mark A © 289-1862  
1222 Dalton Elwood W © 289-6033  
1225 Fischhoff Joseph E © 289-6865  
1231 Muessel Robt W © 287-3849  
1241 Turbow Shirley S Mrs © 289-6138

**S TWYCKENHAM DR INTERSECTS**  
**E WOODSIDE ST INTERSECTS**

**ECKMAN ST W —FROM 2700 S MICHIGAN WEST**

ZIP CODE 46614  
109 Downham Robt R © 289-6794  
117 Vacant  
**MAIN ST INTERSECTS**  
**PENN CENTRAL CROSSES**  
220 Sibley Machine & Foundry Corp iron  
288-4611

**ECLIPSE PL —FROM 2700 WESTMORE NORTH**

ZIP CODE 46628  
521 Bendix Corp (Experimental Bldg)  
**FREDERICKSON INTERSECTS**  
756 Newman Pinkie Mrs © 232-0677  
904 Mc Kinney Arth L  
**PRAST BLVD INTERSECTS**  
**HARTZER INTERSECTS**  
1004 Kline Alden H © 232-4229  
1019 Klota Xavier F © 232-8182  
**GREEN ST INTERSECTS**  
**BONDS AV INTERSECTS**  
1044 Sierzant John T 234-6568  
1045 Gornes Ber  
1054 Rogacki R  
1102 Kallies Ru  
1103 Szweda Ed  
1109 Przygoda J  
LINCOLN WA

1160 Gratzol Ric  
**HUMBOLDT S**  
1205 Linkees He  
1211 Cater Allen  
1212 Kromkowski  
1215 Hutchings  
1216 Nawrot Da  
1219 Rengelski I  
1220 Bellaere Da  
1223 Fogarty Eil  
1224 Weldon J  
1227★Kring Jam  
1228 Warner Lou  
1228½ Gage Jan  
1231 Thompson I  
1232 Santa Wm  
1235 Jablonski H  
1236 Jenkins Her  
1239 Stowers Jan  
1240 Vacant  
1243 Gulick Char  
1244 Kertai Erne  
1248 Myers Lawr  
**CALHOUN IN**  
1302 Radlicki J  
1305 Hevel Heler  
1306 Edgin Olen  
1309 Feece Bessie  
1310 Gondek Jan  
1313 Barber John  
1314 Kaczmarek  
1317 Brandibas I  
1318 Squires Har  
1321 Kowatch Ge  
1322 Nagy James  
1325★Beard Den  
1326 Howell Law  
**ELWOOD AV I**

**KELLER ENDS**  
15 1714 Duke Irene  
1716 Mesaros San  
1718 Mesaros Jos  
1756★Guyse Duar  
1758 Lemert Robt  
**MARQUETTE B**

**HAMILTON EN**  
**BERGAN ENDS**  
**CITY LIMITS**

**EDDY ST N —FROM 1100 WASHINGTON AV NORTH**

ZIP CODE 46617  
107 Apartments  
1 Consolidated  
2 Stevenson Helen L  
3 Roper Joseph A  
4 Hildebrand Mark L  
5 Obyc Dennis L  
119 Tovey Nelle S  
124 Apartments  
A1 Lueneburg Irma  
A2★Russ C F  
A3 Vacant  
B1 No Return

**FEFE CADILLAC**

**N EDDY ST—Contd**  
410 No Return  
418 Johns Wm W © 232-  
**HULL ENDS**  
419 Primrose Zella F Mrs  
422 Koehler Anna M Mrs  
424 Wood Carlos ©  
428 Vacant  
432 Vacant  
433 Student Housing  
**CEDAR INTERSECTS**  
501 Walker Ralph  
503 Greer Clarence E  
507 Holmes Charles W  
studt Hae  
Mrs © 2

*Palke's SB City directory*  
1940 Sibley Mach & Foundry  
1945-46 "  
1949 "  
(So not available)  
54-55 "  
60 "  
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70 "  
75 "  
80 "  
85 "  
89-90



WE SE  
HASTINGS ALU  
40 RADIO

© 291-5064  
422  
II © 291-4772  
91-6407  
-6382  
7385  
S  
91-6397  
© 291-5573  
5245  
91-0595  
432  
291-6564

914 Melkey Fred E © 287-1325  
917 Watkins Robt C Jr 289-2506  
918 Sharpf Laurie S © 288-9018  
921 Chapman Richd 234-9133  
922 Greenwood Larry J © 289-8239  
925 Strumpfer Max L © 288-0869  
926 Arch Charles J Jr © 288-3664  
DALE AV INTERSECTS  
1001 Barts Louise C Mrs © 233-2402  
1011 Sloboda Andrew © 287-8471  
1014 Gould Rubin © 289-8079  
1017 Konzen Norman J © 287-7658  
1024 Grummell Raymond M © 287-2637  
MIAMI ST INTERSECTS

1-6644

MIAMI INTERSECTS

32

406  
0514  
23

1104 Frisk Arth W © 282-2414  
1112 Carleton Wm A © 288-0967  
1119 No Return  
1120 Gingrich Wayne R © 289-5886  
1123 Childs James E © 288-5539  
1126 No Return

5026  
3

1131 Hickey Joseph E © 232-0077  
MARINE INTERSECTS  
1201 Bullock Donald C © 232-0174  
1202 Burlingame John H © 234-7453  
1211★St John Lawrence D ©  
1218 Gallagher Mark A © 289-1862  
1222 Dalton Annabel L Mrs © 289-6033  
1225 Fischhoff Joseph E © 289-6865  
1230★Hatton Edwin E © 282-1180  
1231★Stifel Richd Q © 287-4231  
1241 Naus James H III © 287-6743

3654  
5521

91-5643  
84

S TWYCKENHAM DR INTERSECTS  
E WOODSIDE ST INTERSECTS

492  
or ©

522

ECKMAN ST W —FROM 2700 S  
MICHIGAN WEST

15

66  
9

ZIP CODE 46614  
109 Downham Robt R © 289-6794  
117 Vacant

120

MAIN ST INTERSECTS  
CONRAIL CROSSES

4055  
59

220 Sibley Machine & Foundry Corp iron  
288-4611

6347

ECLIPSE PL —FROM N BENDIX DR  
NORTH

37

ZIP CODE 46628  
521 Community Development (Bur Of  
Housing) 284-9452  
LONGLEY AV INTERSECTS

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MIAMI INTERSECTS  
 1104 Frisk Arth W @ 282-2414  
 1112 Carleton Wm A @ 288-0967  
 1119 Asher Chas A @ 232-9841  
 1120 Gingrich Wayne R @ 289-5886  
 1123 Childs James E @ 288-5539  
 1126 No Return  
 1131 Nevel Bernard P @ 287-0250  
 MARINE INTERSECTS  
 1201 Gobdel Bruce C @ 288-8801  
 1202★Payne Robt @ 287-7267  
 1211★Decio Terry M @  
 1218 Gallagher Mark A @ 289-1862  
 1222 Dalton Annabel L Mrs @ 289-6033  
 1225 Yount Robt A @ 288-8474  
 1230 Linski Chas J @ 288-9041  
 1231 Stifel Richd Q @ 287-4231  
 1241 Pippenger Gary R @ 288-5757  
 S TWYCKENHAM DR INTERSECTS

ECKMAN ST W -FROM 2700 S  
 MICHIGAN WEST  
 ZIP CODE 46614  
 109 Downham Robt R Jr @ 289-6794  
 117 Vacant  
 MAIN ST INTERSECTS  
 CONRAIL CROSSES  
 220 Sibley Machine & Foundry Corp fdry  
 288-4611

ECLIPSE PL -FROM 2801 WESTMOOR  
 ST NORTH  
 ZIP CODE 46628  
 521 City Bureau Of Housing 284-9452  
 LONGLEY AV INTERSECTS  
 756 Newman Pinkie @ 232-7801  
 FREDERICKSON INTERSECTS  
 PRAST BLVD INTERSECTS  
 904 Mc Kinney Arth L @ 233-4439  
 HARTZER INTERSECTS  
 1004 Kline Virginia N Mrs @ 232-4229  
 1019 Wilderness Darnelle @ 232-5464  
 GREEN ST INTERSECTS  
 BONDS AV INTERSECTS  
 1044 Allen James A Jr @ 289-3277  
 1045 Smith Gary @ 288-1634  
 1054★Boykins Daryl @  
 1102★Taelman Douglas S 233-7158  
 1103 Szweda Edw V @ 232-3754  
 1109 Przygoda John F @ 233-6738  
 LINCOLN WAY W INTERSECTS

1160 Gratzol Richd R @ 232-6870  
 HUMBOLDT ST INTERSECTS  
 1205 Reyniers Fred J @ 232-1524  
 1211 Cater Allen H @ 234-0915  
 1212 Clowers Richd E @ 232-1902  
 1215 Hutchings Clarence F Jr @ 233-1739  
 1216 Nawrot Dorothy M Mrs @ 233-6227  
 1219 Gwynn Shirley L @ 289-9935  
 1220 No Return  
 1223 Fogarty Eileen R @ 232-1550

• Carb Overhaul  
 • Welding  
 • Strut Repair  
 • Towing Available  
 232-1171

3718 Michigan Street, South Bend, IN 46614

(Corner Chippewa a

Polks SB City  
 1940 Sibley Mosh  
 1945-46 "  
 1949 "  
 (50 not available)  
 54-55 "  
 60 "  
 65 "  
 70 "  
 75 "  
 80 "  
 85 Vacant  
 89-90 Sibley M



Bradley D 291-4-97  
 Not Verified Randall J 289-1805  
 Miltenberger John P 291-6711  
 Miltenberger Dean A 291-6711  
 Adamson James W 291-6711  
 Adamson Betty J 291-0321  
 Spitler Richard H 291-0321  
 Spitler Mary B 291-4210  
 Chapla Bryan D 291-4210  
 Chapla Dawn V 291-6684  
 Seidler Rita F 291-1746  
 Wells Leslie E 299-0623  
 Quintero Michael O 291-9591  
 Stuff Donald D & Jennifer 291-9591  
 Hearn Michael E 291-9854  
 Hearn Barbara A 291-9854  
 Bancroft Elizabeth C 232-0520  
**SH ST INTERSECTS**  
 Chustak Daniel A 232-0520  
 Chustak Andrea A 291-6491  
 Elias Benjamin 291-6300  
 Elias Esther 299-9323  
 Saros Sarka C 299-8734  
 Not Verified 299-8734  
 Vitale Albert S & Carmela 231-1153  
 Not Verified 231-1153  
 McMillen Marcy S 231-1153  
 Basile Peter J 231-1153  
 Basile Virginia L 231-1153  
 Not Verified 231-1153  
 Hojara Jean A 231-1153  
 Sallows Martha L 231-1153  
 Speer John R 231-1153  
 Speer Chimene R 231-1153  
 Rowe Jeffrey 231-1153  
 Fabrycki Jane E 231-1153  
**BEARS & ASSOC indus supl**  
 231-1153  
 Shepard Robert M & Penny 231-1153  
**SKINE BLVD INTERSECTS**  
 Retseck M A 233-7378  
 Bricker Frederick R II 233-5721  
 Dabros M 233-5721  
 Mawhorter Juanita F 289-1006  
 Mawhorter Donald D Jr 289-1006  
 Wozniak Hubert J 232-8346  
 Wozniak Mildred E 289-2053  
 Roney Raymond W & Gertrude 234-0512  
 Hosea Wanda A 289-2053  
 Tubbs Dennis G 234-0512  
 Stoner Cynthia M 234-0512  
**GH ST INTERSECTS**  
 Salinas Jamie 289-9497  
 Davis R A 234-0838  
 Leyba Roxanne L 234-0838  
 Newkirk Stephanie 234-0838  
 Not Verified (2 Hses) 234-0838

Carleton William G 282-2414  
 Andrews Norman G 288-0967  
 Andrews Laurie J 237-9440  
 Long Rick J 237-9440  
 Long Anne F 233-4062  
 Not Verified 233-4062  
 Nevel Etta K 233-1672  
 Nevel Maura 233-1672  
**MARINE ST INTERSECTS**  
 Not Verified 233-1672  
 Bartels Ann M 289-3759  
 Abernethy J S 288-3446  
 Gallagher Mark A 289-1862  
 Gallagher Kathleen S 289-1862  
 Pyne Kathleen A 233-9428  
 Not Verified 233-9428  
 Linski Charles J & Joanne 288-9041  
 Stifel Richard Q 287-4231  
 Stifel Joyce F 287-4231  
 Hansen Earl M 234-2642  
 Hansen Barbara Z 234-2642  
**+S TWYCKENHAM DR INTERSECTS**  
 BUSINESSES 2 HOUSEHOLDS 143  
**W ECKMAN ST (SOUTH BEND)-**  
**FROM 2699 S MICHIGAN ST WEST**  
 ZIP CODE 46614 CAR-RT C002  
 Arnett Geannie R 251-1941  
**+S MAIN ST INTERSECTS**  
 220 SOUTH BEND FOUNDRY gry  
 dctlr irn fndr 251-1941  
**+RAILROAD CROSSES**  
 BUSINESSES 1 HOUSEHOLDS 1  
**ECLIPSE PL (SOUTH BEND)-**  
**FROM 2999 BERTRAND ST NORTH**  
**+N BENDIX DR INTERSECTS**  
 ZIP CODE 46628 CAR-RT C001  
 521 H D C CONSTRUCTION CO  
 snl-fam hsgn cnstr 235-5838  
**+WESTMOOR ST INTERSECTS**  
 ZIP CODE 46628 CAR-RT C003  
 756 Not Verified  
**+FREDERICKSON ST INTERSECTS**  
**+PRAST BLVD INTERSECTS**  
 904 Mc Kinney J 233-4439  
**+HARTZER ST INTERSECTS**  
 1004 Keays Garnett M 234-9603  
 1019 Brown Tekela C 288-1634  
**+BONDS AVE INTERSECTS**  
 1044 Not Verified 288-1634  
 1045 Smith Val 288-1634  
 1054 Not Verified 288-1634  
 1102 Reddick Toni R 232-3754  
 Reddick Conrad 232-3754  
 1103 Szweda Edward V & Genevieve 232-3754  
 1109 Przygoda Marie Y 232-3754

Hyde Cecil 1325  
 Scott Kenn 1326  
**+ELWOOD AVE +KELLER ST +MARQUETTE BUSINESSES 2**  
**N EDDY ST (SOUTH BEND)**  
 1099 E W  
 NORTH  
**+S EDDY ST E**  
 ZIP CODE 46602  
 107 HEBARD & ARCHITECT svcs  
 119 Tolosa Ray  
 124 Achterberg  
 Barnes  
 Burnside  
 A1-B2 Not  
 125 Torres Frat  
 128 Christman  
 B1 Allen  
 B3 Not Ve  
 132 Gillen Sean  
 Mirfield  
 Morrett  
 C3 Not Ve  
**+E COLFAX AVE**  
 211 AFFILIATES PSCHOTH hltl prnrs ALLERGY SOUTH BE clinic  
 Aranda Barbour T  
 Bates Ne  
 Bhattach  
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 Campbell  
 Cavanaugh  
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 CREDI GR  
 Crowell Ste  
 Duplantier  
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 medical clinic 237-9334  
 211 Not Verified  
 eininger F 237-9340

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1123 Long Rick J & Anne F [12] ▲  
 .....574-233-4062  
 87-4235 1126 Rosenman Israel M [6] ▲  
 .....574-283-0072  
 87-4235 Rosenman Naomi D ..574-283-0072  
 1131 Nevel Bernie P [29] ▲  
 .....574-287-0250  
 Nevel Etta K .....574-287-0250  
 91-6484 + MARINE ST INTERSECTS  
 91-6484 1201 Visconsi Elliott T & Maura C ▲  
 .....574-232-0747  
 91-6300 1202 Cripe Scott A [9] ▲ .....574-234-9605  
 Cripe Jody R .....574-234-9605  
 1211 Dashiell Leslie V [9] ▲  
 1218 Venditelli William H [5] ▲  
 Venditelli Wendy L  
 1222 Pyne Kathleen A [13] ▲  
 .....574-233-2548  
 1225 Roth Lynda S [25] ▲  
 .....574-288-8474  
 1-3766 1230 Davis Charles E [5] ▲  
 .....574-233-9359  
 Davis Ebonee L .....574-233-9359  
 1-5980 1231 Borger Brian Z [2] ▲  
 .....574-520-1471  
 1-6295 1241 Hansen Earl M & Barbara Z [13] ▲  
 .....574-234-3442  
 + S TWYCKENHAM DR INTERSECTS  
 BUSINESSES 1 HOUSEHOLDS 154  
 -7378 **W ECKMAN ST (SOUTH BEND)-FROM 2701 S**  
 -6234 **MAIN ST WEST**  
 -6234 + S MICHIGAN ST CONTINUES  
 -4190 • ZIP CODE 46614 CAR-RT C002  
 109 No Current Listing  
 + S MAIN ST INTERSECTS  
 -2053 + RAILROAD CROSSES  
 300 QUICK BINS waste containers  
 -2305 .....574-232-3366  
 + GREEN TECH DR ENDS  
 400 Morris M [3] .....574-233-7554  
 0338 **BUSINESSES 1 HOUSEHOLDS 2**  
**ECLIPSE PL (SOUTH BEND)**  
 • ZIP CODE 46628 CAR-RT C001  
 9631 521 Jones Gloria J [3]  
 • ZIP CODE 46628 CAR-RT C009  
 756 No Current Listing  
 5755 • ZIP CODE 46628 CAR-RT C018  
 904 McKinney Arthur L [33] ▲  
 .....574-233-4439  
 [8] 2381 1004 Keays Garnett M [17] ▲  
 .....574-234-9603  
 1019 Wilderness Marilyn A [8] ▲  
 .....574-232-5465  
 6794 1044 Abbott Timothy A ▲  
 1045 Smith Vallonia [34] ▲  
 .....574-288-1634  
 0830 1054 Jones Elizabeth J [4]  
 Jones Bedorah A  
 1102 - 1103 No Current Listing (2 Hses)  
 1100 Gwori Kari J [2] ▲

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E ECKMAN ST Cont'd

- 1126 Rosenman Israel M [7] 574-283-0072
- Rosenman Naomi D ..574-283-0072
- 1131 Coolidge Lucas
- Nevel Bernie P [29] 574-287-0250
- Nevel Etta K .....574-287-0250
- + MARINE ST INTERSECTS**
- 1201 Visconsi Elliott T & Maura C 574-232-0747
- 1202 Cripe Scott A & Jody R [9] 574-234-9605
- 1211 Dashiell Samuel M Sr [10] Dashiell Leslie V
- 1218 Venditelli William H [6] Venditelli Wendy L
- 1222 Pyne Kathleen A [14] 574-233-2548
- 1225 Roth Lynda S [25] 574-288-8474
- 1230 Davis Charles E [6] 574-233-9359
- Davis Ebonee L .....574-233-9359
- 1231 Borger Brian Z [3] 574-520-1471
- Borger Margot K ....574-520-1471
- 1241 Hansen Earl M & Barbara Z [13] 574-234-3442

+ S TWYCKENHAM DR INTERSECTS  
BUSINESSES 1 HOUSEHOLDS 151

W ECKMAN ST (SOUTH BEND)-FROM 2701 S MAIN ST WEST

- + S MICHIGAN ST CONTINUES**
- ZIP CODE 46614 CAR-RT C002
- 109 No Current Listing
- + S MAIN ST INTERSECTS**
- + RAILROAD CROSSES**
- + GREEN TECH DR ENDS**

HOUSEHOLDS 1

ECLIPSE PL (SOUTH BEND)

- ZIP CODE 46628 CAR-RT C009
- 756 No Current Listing
- ZIP CODE 46628 CAR-RT C018
- 904 McKinney Arthur L [33] 574-233-4439
- 1004 Keays Garnett M [18] 574-234-9603
- 1019 Wilderness Marilyn A [9] 574-232-5465
- 1044 Abbott Timothy A [2] Abbott Skylar
- 1045 Smith Vallonia [34] 574-288-1634
- 1054 Jones Elizabeth J [5]
- 1102 - 1109 No Current Listing (3 Hses)
- 1160 Gratzol Richard R [48]
- 1205 Gatlin Gloria D [21] 574-288-3846
- 1211 Blankenship Brandalyn [6]
- 1212 Critchlow Bruce P [18]
- 1215 Wells Peter [5] Wells Amanda
- 1216 Nawrot Danile A [48] 574-233-6227
- 1219 Gwynn Shirley L [28] 574-288-7656

1949  
(No net available)

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INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

SCREENING SITE INSPECTION REPORT

FOR

SIBLEY MACHINE AND FOUNDRY

SOUTH BEND, INDIANA

ST. JOSEPH COUNTY

U.S. EPA ID: IND984892521

SEPTEMBER 10, 2003

Signature Page  
for  
Sibley Machine and Foundry  
Screening Site Inspection  
South Bend, Indiana  
Porter County  
U.S. EPA ID: IND984892521

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Date: 9-11-03

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EPA Site Assessment Manager

Date: \_\_\_\_\_

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## SECTION I

### INTRODUCTION

The Indiana Department of Environmental Management (IDEM) Site Investigation Section, under a Cooperative Agreement (CA) with the United States Environmental Protection Agency, Region V, has been funded to perform Site Inspections (SI) at certain sites listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS). This work is conducted under the authority of the Federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 (aka Superfund), and the Superfund Amendments and Reauthorization Act (SARA) of 1986. Sites eligible for SSIs include those sites for which the Preliminary Assessment (PA) did not conclude that 'No Further Remedial Action is Planned' (NFRAP), as reflected in CERCLIS.

The primary objectives of the SI are:

- To collect data, using the Hazard Ranking System (HRS), required to make the determination of whether the site should be placed on the National Priorities List (NPL);
- To identify sites that may require removal actions to address immediate threats to human health and/or the environment.

The Site Investigation Section (SI) was given approval by the U.S. EPA to conduct an SI at the Sibley Machine and Foundry site located in St. Joseph County, Indiana.



Sibley Machine and Foundry Corp. has operated at this site since 1874. The company manufactures castings for the heavy equipment and off-road industry. Sand is used in the process of making castings. The company produces approximately ten cubic yards of waste foundry sand per week. Due to financial restraints, the company began storing sand from the site.

Information contained within this report will be used to evaluate this site under the Revised Hazard Ranking System Model for possible inclusion on the National Priorities List (NPL) of hazardous waste sites.

## SECTION II

### SITE BACKGROUND

#### 2.1 Introduction

This section includes information obtained from the IDEM-RCRA files and from information obtained from IDEM's Drinking Water program.

#### 2.2 Site Description and Location

The site is located in Section 24, Township 37 North, Range 2 East in the city of South Bend, St. Joseph County, Indiana at 220 West Eckman Street (Figure 1). The site's geographic coordinates are 41° 38' 43.33" North Latitude and 86° 15' 11.42" West Longitude. The active castings facility occupies seven acres of land in an industrial area of South Bend. Sibley Machine and Foundry Corporation is bordered to the north by West Eckman Street; to the south by Conrail railroad tracks; to the east by Conrail railroad tracks and Centennial Steel and; to the west by AM General, a division of the LTV Corporation.

#### 2.3 Site History

Sibley Machine and Foundry Corporation has operated at this site since 1874. The company manufactures castings for the heavy equipment and off-road industry. Sand is used in the process of making castings. The sand is reused but additional sand is needed. The company produces approximately ten cubic yards of

Sibley Machine and Foundry Corp.

SITE LOCATION MAP  
SIBLEY MACHINE AND FOUNDRY CORP. SITE

ST. JOSEPH COUNTY  
SOUTH BEND, INDIANA



FIGURE ONE

waste foundry sand per week. The waste foundry sand used to be removed from the site once a month but due to financial restraints a company representative stated that the waste was only removed once every few months. According to the firm's contracted environmental consulting firm, Toxicity Characteristic Leaching Procedures (TCLP) were used to evaluate the waste foundry sand in compliance with the Resource Conservation and Recovery Act. The waste foundry sand was determined to be within the bounds of the TCLP and approved for disposal at the Prairie View Landfill in Wyatt, Indiana. At one time the company used phenols in processing but have ceased usage since 1987-88. Currently, there is a pile of waste foundry sand that stretches from the eastern edge of the main building along the length of the eastern portion of the property. During a site visit by SI staff to South Bend, Indiana on November 12, 1992, a large pile of foundry sand that was breaching the eastern perimeter fence was noted and photographed. The company switched from a coke-fired operation to an electric mill fired operation in the early 1980's. The coke ash went through an air pollution system. The air pollution system changed the ash into sludge via a wetting process. This sludge was then placed on the property south of the main building until the waste material was hauled off-site. The electric mill utilizes scrap steel and pig iron. These metals are not coated with paint or plating. The electric mill melt produces very little to no slag.

SECTION III  
PROCEDURES, FIELD OBSERVATIONS AND  
ANALYTICAL RESULTS

3.1 Introduction

This section outlines the procedures, observations and analytical results of the Sibley Machine and Foundry site.

3.2 Site Representative Interview and Reconnaissance Inspection

On June 4, 2003, Mark Jaworski, (Project Manager) met with Doug Fisher, Trevor Fuller, Susan Tynes, and Dan Chesterson, (IDEM Team Members). Following the meeting, off-site locations for soil samples were established. In addition, three background soil sample locations was established to determine natural environmental conditions of the immediate area.

Inspection of the site revealed the following observations:

- 1) The Sibley Machine and Foundry site lies on the side of a large residential area. Residential properties are located about 50 feet east of Sibley's eastern boundary.
- 2) Large amount of foundry sand has been dumped on the south side of the site property
- 3) Used casting debris is located along the eastern boundary of the site.
- 4) The far southern portion of the property is overgrown in weeds.
- 5) Small amounts of what appears to be baghouse dust was observed at the northeast corner of the plant property.

### 3.3 Sample Procedures and Analytical Results

The laboratory results from sampling of the Sibley Machine and Foundry site have been determined to be acceptable for use and meet the criteria contained in the Contract Laboratory Program (CLP). (refer to Analytical Results in Appendixes D,) Any exceptions to the acceptance of this data will be identified in the QA/QC memorandum by the U.S. EPA chemists. Refer to Appendixes D).

#### 3.3.1 Soil Samples

Soil samples were collected by IDEM at locations selected during the reconnaissance inspection to determine the extent of potential contamination. On June 4, 2003 a total of seventeen soil samples and were collected. The ten soil samples were identified as ME1LT1 through ME1LW6. The Soil Sample Location and Comments Table, Table 1 on pages 3-3, depicts the sample number, location, and any comments pertaining to each sample. Soil samples were obtained using a plastic scoop. The soils were then homogenized in a stainless steel bowl with the scoop. The homogenized material in the bowl was directly transferred into the sample jar using the plastic scoop. Latex surgical gloves were worn and discarded between the collection of each sample. Refer to Soil Sample Location Map, Figure 2 on page 3-5 for the location of each soil sample.

**Table I  
Sibley Machine and Foundry  
Surface Soil Samples**

Sample ID#	Station Location	Sample Location	Comment
ME1LT0	S 1	109 West Eckman 2 residents in home (4 months) no vegetative stress. Taken from front yard @ 4' west of walk to front door.	Dark brown, sandy loam, no odor or organic appearance 0-4"
ME1LT1	S 2	115 East Irvington Taken from front yard SW corner of house 7' south of house, Top 4". Dark brown sandy loam; no noticeable organic odor, etc.	No noticeable color, odor, etc.
ME1LT2	S 3	121 East Fairview Top 4"; dark brown sandy loam; some bare spots in yard	Dark brown sandy loam; some organics Taken from west edge of yard @ 5' from SE corner of house.
ME1LT3	S 4	114 Altgeld Street Taken from front yard NW edge of house 2' from sidewalk; 4' from edge of alley	Dark brown sandy loam; similar in appearance to other samples
ME1LT4	S 5	123 Ewing Street Taken from top 4"; SE corner of lot; 3' N of sidewalk; dark brown; sandy loam	No noticeable color; no odor, etc.
ME1LT5	S 6	128 Oakside Road Taken from barish spot, front yard NE corner edge of mill; 5' from sidewalk	Dark brown, sandy loam
ME1LT6	S 7	4802 Balmoral Court Taken from 120 E Woodside Street, South Bend; backyard, center underneath the Forsythia bush between Lilacs	Dark brown, sandy loam, more clayey than other spots. Paint chops located throughout yard.
ME1LT7	S 8	2717 South Main Street Taken from side yard south of house @ 4"; in front of basement window	
ME1LT8	S 9	2732 South Main Street Taken from side yard @ 33' N of house 25' east of sidewalk	Dark brown, sandy loam
ME1LT9	S 10	SE entrance to side where railroad track had been approx. 30' SE of plant building	Black sand with some limestone rocks top branches, moist
ME1LW0	S 11	Soil sample obtain next to foundry casting located approx. 40' feet E of the central east side of plant building	Black sand; moist; no odor
ME1LW1	S 12	Same as E1LW0	Black sand; moist; no odor
ME1LW2	S 13	NE corner of Plant Building; 10' E of Plant Building; approx. 60' S of SE corner of Plant Building	Black sand/silt; colorless - possible baghouse dust

**Table I**  
**Sibley Machine and Foundry**  
**Surface Soil Samples**

Sample ID#	Station Location	Sample Location	Comment
ME1LW4	S 15	Wooded area approx. 3000' S-SE of Rum Village; approx. 150' W of Linden Road; approx. 1000' N of Ireland Road	Sandy silt; dark brown with some root material
ME1LW5	S 16	Background soil sample obtained in Rum Village pathway located 50' W of Rum Village Park; 100' W of Linden Road, approx. 800' S of W entrance to Rum Village Park	Black-dark brown sandy silt, roots, high organics
ME1LW6	S 17	2714 South Main Street Taken from front yard NW corner of house approx. 5' from sidewalk	Dark brown sandy loam



Sibley Machine and Foundry  
South Bend, Indiana



0 0.125 0.25 Miles

S14

S16

S15

Ewing Street

Alford Street

Victoria Street

Fairview Street

Irvington Street

Eckman Street

Oakside Street

Woodside Street

Michigan Street

Main Street

Eckman Street

S2

S1

S17

S8

S9

S6

S13

S11

S12

S10

### 3.4 Summary Tables

Metals analysis were performed on the soil samples. A Key Findings List summarizing contaminant concentrations detected three (3) times above background starts on page 4-10.

Refer to Appendix B for a complete list of the chemical analysis data provided by the laboratory.

## SECTION IV

### DISCUSSION OF MIGRATION PATHWAYS

#### 4.1 Introduction

Potential migration pathways for contaminants migrating from the Sibley Machine and Foundry site are discussed in this section. Potential contaminant migration through groundwater, surface water (including Drinking Water Threat, Human Food Chain Threat, and Environmental Threat), soil exposure, and air are discussed.

#### 4.2 Groundwater Pathway

The parent materials primarily found in St. Joseph County were placed by glacial deposition or by melt water from the glaciers.

The properties of the parent material may vary greatly with small areas contingent on the mode of deposition. Within St. Joseph County, the predominant parent materials were deposited as glacial till, outwash, alluvium and organic material. Site specifically, the soils are of the Tyner-Oshtemo association. Soils within this association are deep, nearly level to strongly sloping well drained, coarse textured and moderately coarse textured soils on outwash plains and terraces. Tyner soils are deep, nearly level to strongly sloping and well drained. Oshtemo soils are typically deep, nearly level to strongly

sloping, and well drained. Minor soils within this association include Chelsea, Brems, Maumee, Brady, and Tedrow soils on the outwash plains as well as Tracy and Fox soils on the outwash plains and terraces. Within the Ryner-Oshtemo association, soil types from the Brady Series and the Tyner Series are found on-site.

The Brady Series of the Tyner-Oshtemo association is comprised of deep, somewhat poorly drained, nearly level soils on outwash terraces. The soils are primarily found between nearly level, well-drained soils and very poorly drained soils in depressions. Brady soils have a moderately rapid permeability rate and their available water capacity is low. The superficial layer has a moderate organic-matter content. Runoff is slow. The Brady sandy loam of the Brady Series is found on the north and northwest to west portions of the site. This soil type is in irregularly shaped areas on broad flats. The slopes are zero to two percent. The Brady sandy loam has a seasonal water table at a depth of one to three feet.

The Tyner Series of the Tyner-Oshtemo association is comprised of deep, well-drained, nearly level to strongly sloping soils on outwash plains and terraces. The soils are located on raised flats and ridges. Tyner soils have a rapid permeability rate coupled with a low available water capacity. The surficial layer has a moderate organic material content. Runoff is slow to

medium. The Tyner loamy sand with zero to six percent slopes of the Tyner Series is found on the northeast and south to southeast areas of the site. Drought is of major concern with this soil type. During arid periods, blowing soil is a hazard if there is no protective cover in place.

Site specific topography is relatively flat. The eastern portion is well as the southern end of the property slopes gently toward the railroad tracks.

The majority of the population within a 4-mile radius of the site relies on municipal groundwater supplies retrieved from eleven well fields throughout the South Bend area, operated by the St. Joseph County Water Department (SJCWD). The groundwater is recovered from the St. Joseph aquifer, a sand and gravel aquifer about 90 feet below ground surface. Several discontinuous sand and clay lenses overlie this aquifer. Of the eleven well fields, six are located within the target distance limits. The South Station well field is located within  $\frac{1}{4}$  mile of the site. The well field has four active wells: South #1 is at a depth of 93 feet and has a water capacity of 3,100,000 gallons per day (gpd); South #2 is at a depth of 92 feet and has a water capacity of 2,200,000 gpd; South #3 is at a depth of 100 feet and has a water capacity of 2,300,000 gpd; and South #4 is at a depth of 108 feet and has a water capacity of 3,800,000 gpd. The Erskine well field is located within one mile of the site. The

well field has one active well and one inactive well due to PE contamination. Erskine #1 is at a depth of 175 feet and has a water capacity of 800,000 gpd and the Erskine #2 is at a depth of 116 feet and has a water capacity of 2,800,000 gpd. The Rum Village well field is also located within one mile of the site. The well field has one active well and one inactive well due to TCE contamination. Rum Village #1 is at a depth of 137 feet and has a water capacity of 1,500,000 gpd and Rum Village #2 is at a depth of 126 feet and has a water capacity of 2,000,000 gpd. The Olive Street well field is located within two miles of the site. The well field has 6 wells, two wells are active, two are closed due to TCE contamination and two are closed due to high hardness. The depth and the water capacity for each well is: Oliver #1 is 168 feet and 3,000,000 gpd; Oliver #2 is 164 feet and 3,250,000 gpd; Oliver #3 is 155 feet and 3,500,000 gpd. Oliver #2 is 164 feet and 3,250,000 gpd; Oliver #3 is 155 feet and 3,500,000 gpd; Oliver #4 is 192 feet and 3,000,000; gpd; Oliver #5 is 158 feet and 3,000,000 gpd and; Oliver #6 is 168 feet and 3,000,000 gpd. The North Station well field is located within three miles of the site. The well field has three active wells. North #5 is at a depth of 104 feet and has a water capacity 3,000,000 gpd; North #6 is at a depth of 106 feet and has a water capacity of 3,000,000 gpd and; North #7 is at a depth of 112 feet and has a water capacity of 3,000,000 gpd. The Edison well field is

located within four miles of the site. The well field has four active wells: Edison #1 is at a depth of 206 feet and has a water capacity of 4,000,000 gpd; Edison #2 is at a depth of 200 feet and has a water capacity of 3,100,000 gpd; Edison #3 is at a depth of 204 feet and has a water capacity of 3,400,000 gpd and; Edison #4 is at a depth of 196 feet and has a water capacity of 3,600,000 gpd. The municipal water supply is a blended system and neither well field nor any individual well can or does contribute more than 40 percent of the total output of the system.

Approximately 115,000 people are serviced by the 31 active wells within the eleven well fields. Each of these active wells services an estimated 3709.67 persons.

There are approximately 1,023 homes within four miles of the site that utilize private wells for drinking water. At 2.54 persons per household (the average for St. Joseph County) this equates to 2,598 persons. The wells in the area that are completed in sand and gravel with static water levels ranging from four to 36 feet below ground surface. Due to the moderate to rapid permeability of the site-specific soils, the close proximity of the municipal wells and the recharge zone of the municipal wells encompassing the site, migration of potential contaminants into the groundwater is feasible. A review of the analysis of the drinking water from the South Well field that was supplied to IDEM by the SJCWD revealed no detections of

contaminants that could be related to this site. There are no drinking water wells located down gradient (northeast) from the Sibley site.

#### 4.3 SURFACE WATER PATHWAY

Across St. Joseph County lies the drainage divide between the Mississippi Basin and the Great Lakes Basin. Approximately 2/3 of the drainage enters into the Kankakee River System, which flows into the Mississippi River, while the other 1/3 of the drainage enters into the St. Joseph River System which flows into Lake Michigan. Yellow River, Grapevine Ditch, Niesponziany Ditch, Pine Creek and Yellow Bank Creek are the primary tributaries of the Kankakee River. Baugo Creek, Juday Creek, Eutzler Ditch, Woodward Ditch and Bowman Creek and the primary tributaries of the St. Joseph River.

Some of the overland drainage from the site flows north and northeast approximately 375 feet into the Bowman Creek. Bowman Creek flows approximately 1.5 miles into the St. Joseph River, which has an average flow of 3,403 cubic feet per second (cfs). Other overland drainage flows into the combined sewer system that leads to the wastewater treatment plant.

##### 4.3.1 Drinking Water

There are no drinking surface water intakes located within fifteen downstream miles of the site. Residents are serviced by municipal or private groundwater wells.



#### 4.3.2 Human Food Chain

A release to the surface water from potential hazardous substances at the Sibley Machine and Foundry Corp. is not suspected. The majority of the site runoff enters into the combines sewer system and not into the 15-mile surface water pathway. Aquatic species commonly caught include bass, catfish and carp. The Indiana Department of Environmental Management, Office of Water Management, Biological Studies Section released a "2002-03 Indiana Fish Consumption Advisories" that states carp within the St. Joseph River throughout St. Joseph County have been assigned a Group 3 advisory status. A Group 3 advisory indicates that no one should eat the designated species from the named waterway. The carp were found to have elevated levels of PCBs in the tissue. There are no outstanding fish advisories in the State of Michigan portion of the St. Joseph River to the end of the fifteen-mile surface water pathway. The fish advisory for the St. Joseph River is for contaminants not suspected to be attributable to the site.

#### 4.3.3 Environmental

The Indiana Department of Natural Resources/Division of Nature Preserves-Heritage Program (IDNR/DNP-HP) documents sensitive environments and/or endangered or threatened species within the State of Indiana. A survey conducted by the IDNR/DNP-

HP indicated that there are endangered or threatened species or sensitive environments near the Sibley Machine and Foundry site. The following State endangered species were found: the blanding's turtle, eastern massasauga, and the copperbelly water snake. Since these endangered species are not found on site and that any contamination found on site has not migrated off site, it does not appear that any sensitive environment has been impacted.

#### 4.4 SOIL EXPOSURE

The Sibley Machine and Foundry Corporation is an active facility that has a perimeter fence surrounding the seven acre facility as well as a guard tower at the entrance gate. On the eastern edge of the property there is a breach in the fence and consequently the on-site mound of foundry sand has migrated off-site along the Conrail railroad tracks. There is no cover on the mound of foundry sand that runs along the eastern border of the site. There are 50+ employees working on-site. The nearest residence is roughly 200 feet east of the facility. There are no schools or day car facilities within 200 feet of the operation. The total population within a four-mile radius of the site is over 100,000 persons as determined from the 1990 Census Population and Housing and supplemented by a house count of the Four-Mile Radius Map. The site has a perimeter fence, although the waste pile breaches the fence near the railroad tracks.

Seventeen soil samples were obtained. Four samples were obtained from the Sibley property, three from areas located east of the Sibley facility that were considered background samples, and ten from the surrounding residential area. Elevated levels of some metals were detected at concentrations three times above background (ie, magnesium, copper, chromium, lead, and iron) Highly elevated levels arsenic, antimony, chromium, copper, and nickel, were detected in one on-site sample. This sample (ME1LT9) may have been bag house dust that had spilled onto the surface. No other off-site samples revealed detections of metals that approached the concentrations ME1LT9. Since this sample was obtained from the fenced Sibley facility, only workers could be exposed. Although some metal concentrations exceeded three times background from some of the residential samples that were obtained, no metal concentrations exceeded State or Federal removal action levels. Refer to the Key Findings List starting on page 4-10 that depicts those soil samples that were found to contain contaminants at levels three times above background.

#### 4.5 Air Pathway

No air samples were taken. No odors were observed during this inspection when collecting on-site soil samples. Presently, there are no reports of adverse health effects resulting from the migration of hazardous substances through the air. There does not appear to be a potential risk to nearby residents by the air

**Sibley Machine and Foundry  
Background Soil  
ME1LW6**

All Concentrations are parts per million

<b>Contaminant</b>	<b>X3</b>
Aluminum	16200.00
Antimony	4.20
Arsenic	9.90
Barium	225.00
Beryllium	1.53
Cadmium	1.20
Calcium	4500.00
Chromium	23.70
Cobalt	11.10
Copper	27.30
Iron	22920.00
Lead	82.20
Magnesium	2913.00
Manganese	3030.00
Mercury	0.30
Nickel	29.10
Potassium	1737.00
Selenium	26.10
Silver	7.50
Sodium	477.00
Thallium	4.20
Vanadium	30.60
Zinc	154.20

**Key Findings List**  
**Sibley Machine and Foundry**  
All concentrations are in mg/kg

Sample #	Contaminant	Concentration
ME1LW0	Antimony	6.0
	Cadmium	2.3
	Iron	35,400.0
	Lead	251.0
	Nickel	35.3
	Zinc	436.0
ME1LW1	Antimony	6.0
	Cadmium	2.5
	Calcium	5,580.0
	Chromium	35.2
	Copper	97.5
	Iron	36,800.0
	Lead	229.0
	Nickel	33.3
	Zinc	439.0
ME1LW2	Antimony	15.5
	Argon	205.0
	Calcium	6,760.0
	Chromium	269.0
	Iron	249,000
	Lead	139.0
	Nickel	132.0
ME1LT5	Chromium	26.6
ME1LT6	Barium	294.0
	Chromium	24.2
	Lead	384.0
ME1LT7	Calcium	16,000.0
ME1LT0	Calcium	13,500.0
	Magnesium	3,740.0
	Lead	104.0
ME1LT3	Argon	22.9
	Cadmium	6,240.0
ME1LT4	Cadmium	18,700.0
	Lead	158.0
	Magnesium	7,8870.0

Appendix D  
Chemical Analysis

DATE: June 19, 2003

Indiana Dept of Environmental Management  
Office of Environmental/Site Investigation Section  
P.O. Box 6015  
100 N. Senate Avenue  
Indianapolis, IN 46206-6015

Attn: Mark Jaworski

SITE NAME: Sibley Machine and Foundry

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
31784	Bonner	17	ME1LT0	Soil

---

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by: \_\_\_\_\_ Date: \_\_\_\_\_

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

---

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Received by Data Management Coordinator, CRL for file.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_

FROM: U.S. EPA  
Region V  
Central Regional Laboratory  
536 S. Clark, 10th Floor  
CHICAGO, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist  
ESAT

RECEIVED

JUN 23 2003

DEPARTMENT OF  
ENVIRONMENTAL MANAGEMENT  
OFFICE OF LAND QUALITY

JUN 19 2003

Page 1 of 5

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: June 18, 2003

SUBJECT: Review of Data  
Received for Review on June 18, 2003

FROM: Stephen L. Ostrodka, Chief (SMF-4J)  
Superfund Field Services Section

TO: Data User: IDEM

The data in this case has not been validated.  
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: Sibley Machine & Foundry

CASE NUMBER: 31784 SDG NUMBER: ME1LTO

Number and Type of Samples: 17 soils

Sample Numbers: ME1LTO-9; ME1LW0-6

Laboratory: Bonner Hrs. for Review: 2

Following are our findings:

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J



Case Number : 31784  
Site Name: Sibley Machine & Foundry

Page 2 of 5  
SDG Number: ME1LT0  
Laboratory: Bonner

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Seventeen soil samples numbered ME1LT0-9 and ME1LW0-6 were collected on June 4, 2003. The lab received the samples on June 6, 2003. The sample cooler temperature was 0.3 degrees C upon receipt. All samples were analyzed for metals. All samples were analyzed using CLP SOW ILM05.2 analysis procedures.

All inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission/ Mass Spectrometric procedure.

Assembled By: ESAT  
Date: June 18, 2003

Case Number : 31784  
Site Name: Sibley Machine & Foundry

Page 3 of 5  
SDG Number: ME1LT0  
Laboratory: Bonner

**1. HOLDING TIME:**

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 4  
Data Review Results

Lab ID: BONNER Case No.: 31784 Method: ILM05 Flag :NFGFLAG  
File Name: ME1LT0 SDG No.: ME1LT0 Criteria: ILM05 Defects: ILM5

Qualification: Holding Time

Protocol: INORG

DC-10 The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME1LT0, ME1LT1, ME1LT2, ME1LT3, ME1LT4, ME1LT5, ME1LT6, ME1LT7, ME1LT8,  
ME1LT9, ME1LW0, ME1LW1, ME1LW2, ME1LW3, ME1LW4, ME1LW5, ME1LW5S, ME1LW6

**2. CALIBRATIONS:**

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 1  
Data Review Results

Lab ID: BONNER Case No.: 31784 Method: ILM05 Flag :NFGFLAG  
File Name: ME1LT0 SDG No.: ME1LT0 Criteria: ILM05 Defects: ILM5

Qualification: Calibrations

Protocol: INORG

No defects found.

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 2  
Data Review Results

Lab ID: BONNER Case No.: 31784 Method: ILM05 Flag :NFGFLAG  
File Name: ME1LT0 SDG No.: ME1LT0 Criteria: ILM05 Defects: ILM5

Qualification: CRDL/CRQL Standard

Protocol: INORG

No defects found.

**3. BLANKS:**

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 6  
Data Review Results

Lab ID: BONNER Case No.: 31784 Method: ILM05 Flag :NFGFLAG  
File Name: ME1LT0 SDG No.: ME1LT0 Criteria: ILM05 Defects: ILM5

Qualification: Laboratory Blanks

Protocol: INORG

No defects found.

Assembled By: ESAT  
Date: June 18, 2003

Case Number : 31784  
Site Name: Sibley Machine & Foundry

Page 4 of 5  
SDG Number: ME1LT0  
Laboratory: Bonner

**MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:**

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 8

Data Review Results

Lab ID: BONNER Case No.: 31784 Method: ILM05 Flag :NFGFLAG  
File Name: ME1LT0 SDG No.: ME1LT0 Criteria: ILM05 Defects: ILM5

Qualification: Matrix Spikes

Protocol: INORG

No defects found.

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 7

Data Review Results

Lab ID: BONNER Case No.: 31784 Method: ILM05 Flag :NFGFLAG  
File Name: ME1LT0 SDG No.: ME1LT0 Criteria: ILM05 Defects: ILM5

Qualification: Laboratory Control Sample

Protocol: INORG

DC-6 The following inorganic soil samples are associated with a solid laboratory control sample (LCS) with analyte found amounts which are high, indicating a potential positive bias in the sample results. Hits are qualified "J".

**Antimony**

ME1LT0, ME1LT1, ME1LT2, ME1LT3, ME1LT4, ME1LT5, ME1LT6, ME1LT7, ME1LT8,  
ME1LT9, ME1LW0, ME1LW1, ME1LW2, ME1LW3, ME1LW4, ME1LW5, ME1LW6

**Silver**

ME1LT0, ME1LT3, ME1LT5, ME1LT6, ME1LT7, ME1LT9, ME1LW0, ME1LW1, ME1LW2,  
ME1LW5

**5. LABORATORY AND FIELD DUPLICATE**

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 3

Data Review Results

Lab ID: BONNER Case No.: 31784 Method: ILM05 Flag :NFGFLAG  
File Name: ME1LT0 SDG No.: ME1LT0 Criteria: ILM05 Defects: ILM5

Qualification: Duplicates

Protocol: INORG

No defects found.

**6. ICP ANALYSIS**

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 5

Data Review Results

Lab ID: BONNER Case No.: 31784 Method: ILM05 Flag :NFGFLAG  
File Name: ME1LT0 SDG No.: ME1LT0 Criteria: ILM05 Defects: ILM5

Qualification: Interference Check Sample

Protocol: INORG

10 The following inorganic samples have one or more interferents present at concentrations

Assembled By: ESAT  
Date: June 18, 2003

Case Number : 31784  
Site Name: Sibley Machine & Foundry

Page 5 of 5  
SDG Number: ME1LT0  
Laboratory: Bonner

more than true amounts added in the ICSAB solution. Use Professional judgement to qualify sample data.

ME1LT9, ME1LW0, ME1LW1, ME1LW2

Date: 6/17/2003

Wincadre 3.1.3.2

Page: 11

Data Review Results

Lab ID: BONNER  
File Name: ME1LT0

Case No.: 31784  
SDG No.: ME1LT0

Method: ILM05  
Criteria: ILM05

Flag :NFGFLAG  
Defects: ILM5

Qualification: Serial Dilution

Protocol: INORG

DC-4 The following inorganic samples are associated with an ICP serial dilution percent difference which is not in criteria. The serial dilution result is greater than the sample result, indicating a potential negative interference. The data must be qualified using professional judgement. Hits and non-detects are not flagged.

**Sodium**

ME1LT0, ME1LT1, ME1LT2, ME1LT3, ME1LT4, ME1LT5, ME1LT6, ME1LT7, ME1LT8,  
ME1LT9, ME1LW0, ME1LW1, ME1LW2, ME1LW3, ME1LW4, ME1LW5, ME1LW6

**7. GFAA ANALYSIS**

**8. SAMPLE RESULTS**

Date: 6/17/2003 Wincadre 3.1.3.2 Page: 10

Data Review Results

Lab ID: BONNER  
File Name: ME1LT0

Case No.: 31784  
SDG No.: ME1LT0

Method: ILM05  
Criteria: ILM05

Flag :NFGFLAG  
Defects: ILM5

Qualification: Sample Result Verification

Protocol: INORG

No defects found.

All data, except those qualified above, are acceptable.

Assembled By: ESAT  
Date: June 18, 2003

ILM05.2 Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Case #: 31784

SDG : ME1LT0

Site :

SIBLEY MACHINE AND FOUNDRY

Lab. :

BONNER

Number of Soil Samples : 17

Reviewer :

Number of Water Samples : 0

Date :

Sample Number :	ME1LT0	ME1LT1	ME1LT2	ME1LT3	ME1LT4					
Sampling Location :	S1	S2	S3	S4	S5					
Matrix :	Soil	Soil	Soil	Soil	Soil					
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg					
Date Sampled :	06/04/2003	06/04/2003	06/04/2003	06/04/2003	06/04/2003					
Time Sampled :	11:25	11:35	11:50	12:00	12:15					
%Solids :	85.5	85.1	89.4	81.2	83.4					
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5460		4540		4480		4390		5590	
ANTIMONY	2.3	J	2.2	J	1.5	J	2.6	J	2.4	J
ARSENIC	3.9		3.9		3.2		22.9		5.7	
BARIUM	89.2		58.9		52.8		104		65.4	
BERYLLIUM	0.46		0.35		0.30		0.47		0.39	
CADMIUM	1.0		0.67		0.35		0.69		0.62	
CALCIUM	13500		2220		954		6240		18700	
CHROMIUM	17.5		16.0		7.8		18.9		12.2	
COBALT	3.7		3.2		2.9		3.0		3.7	
COPPER	19.7		13.1		12.3		17.3		16.8	
IRON	10400		7490		6700		7950		10500	
LEAD	145		104		81.6		117		158	
MAGNESIUM	3740		1090		815		1770		7870	
MANGANESE	482		416		368		436		415	
MERCURY	0.070		0.090		0.060		0.24		0.080	
NICKEL	9.9		7.4		6.2		7.4		9.2	
POTASSIUM	641		410		363		535		929	
SELENIUM	7.9	U	8.1	U	7.8	U	8.2	U	8.3	U
SILVER	0.11	J	2.3	U	2.2	U	0.20	J	2.4	U
SODIUM	153		184		162		253		180	
THALLIUM	1.0		1.4		0.86		0.93		0.65	
VANADIUM	17.9		12.0		11.0		14.0		15.6	
ZINC	172		95.9		62.3		142		125	
CYANIDE										

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 31784

SDG : ME1LT0

Site :

SIBLEY MACHINE AND FOUNDRY

Lab. :

BONNER

Reviewer :

Date :

Sample Number :	ME1LT5	ME1LT6	ME1LT7	ME1LT8	ME1LT9					
Sampling Location :	S6	S7	S8	S9	S10					
Matrix :	Soil	Soil	Soil	Soil	Soil					
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg					
Date Sampled :	06/04/2003	06/04/2003	06/04/2003	06/04/2003	06/04/2003					
Time Sampled :	12:30	12:45	01:15	01:25	11:30					
%Solids :	78.9	82.2	87.4	83.2	87.2					
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	8260		5130		5620		5110		3300	
ANTIMONY	2.6	J	2.5	J	2.6	J	2.1	J	9.3	J
ARSENIC	5.1		4.1		3.2		3.2		3.3	
BARIUM	129		294		119		103		44.8	
BERYLLIUM	0.48		0.31		0.36		0.39		0.29	
CADMIUM	0.71		0.71		1.1		0.57		1.1	
CALCIUM	3510		1530		16000		1950		9890	
CHROMIUM	26.6		24.2		16.8		9.2		82.8	
COBALT	4.9		3.9		3.6		3.7		3.2	
COPPER	14.4		12.6		20.9		15.3		163	
IRON	10900		8190		9560		7240		53200	
LEAD	65.3		384		228		68.1		34.8	
MAGNESIUM	1630		1080		8440		870		5220	
MANGANESE	803		249		546		670		618	
MERCURY	0.10		0.10		0.75		0.10		0.070	
NICKEL	10.1		7.7		8.7		7.2		55.2	
POTASSIUM	934		663		729		555		392	
SELENIUM	8.6	U	8.3	U	7.9	U	8.0	U	7.6	U
SILVER	0.090	J	0.070	J	0.17	J	2.3	U	0.11	J
SODIUM	175		150		155		167		478	
THALLIUM	1.6		0.71		1.3		1.5		2.0	
VANADIUM	19.3		12.3		13.2		11.1		10.6	
ZINC	115		251		230		102		85.7	
CYANIDE										

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Analytical Results (Qualified Data)

Case #: 31784

SDG : ME1LT0

Site :

SIBLEY MACHINE AND FOUNDRY

Lab. :

BONNER

Reviewer :

Date :

Sample Number :	ME1LW0	ME1LW1	ME1LW2	ME1LW3	ME1LW4					
Sampling Location :	S11	S12	S13	S14	S15					
Matrix :	Soil	Soil	Soil	Soil	Soil					
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg					
Date Sampled :	06/04/2003	06/04/2003	06/04/2003	06/04/2003	06/04/2003					
Time Sampled :	12:00	12:00	12:30	12:50	01:15					
%Solids :	84.4	85.2	84.6	77.4	81.8					
Dilution Factor :	1.0	1.0	1.0	1.0	1.0					
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	4500		4610		2580		5060		4020	
ANTIMONY	7.8	J	6.0	J	15.5	J	17	J	1.5	J
ARSENIC	6.1		6.1		205		2.4		2.1	
BARIUM	82.1		73.2		42.8		150.7		44.5	
BERYLLIUM	0.36		0.40		0.15		0.36		0.25	
CADMIUM	2.3		2.5		1.2	U	0.27		0.22	
CALCIUM	4930		5580		6760		1490		1660	
CHROMIUM	40.4		35.2		269		7.0		6.1	
COBALT	3.5		3.6		6.5		2.7		3.1	
COPPER	151		97.5		313		5.8		5.3	
IRON	35400		36800		249000		5730		7430	
LEAD	251		229		139		30.9		11.8	
MAGNESIUM	2280		2590		1580		822		872	
MANGANESE	1100		1080		1050		672		466	
MERCURY	0.11		0.12		0.050		0.070		0.060	
NICKEL	35.3		33.3		132		5.7		6.0	
POTASSIUM	456		477		240		476		518	
SELENIUM	8.1	U	6.1	U	8.2	U	9.0	U	8.1	U
SILVER	0.78	J	0.84	J	0.17	J	2.6	U	2.3	U
SODIUM	275		255		336		155		150	
THALLIUM	2.4		2.3		4.1		1.3		0.65	
VANADIUM	15.8		15.2		16.3		8.8		9.9	
ZINC	436		439		79.3		42.5		33.7	
CYANIDE										

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.



Analytical Results (Qualified Data)

Case #: 31784

SDG : ME1LT0

Site :

SIBLEY MACHINE AND FOUNDRY

Lab. :

BONNER

Reviewer :

Date :

Sample Number :	ME1LW5	ME1LW6	ME1LW5D	ME1LW5S						
Sampling Location :	S16	S17	S16	S16						
Matrix :	Soil	Soil	Soil	Soil						
Units :	mg/Kg	mg/Kg	mg/Kg	mg/Kg						
Date Sampled :	06/04/2003	06/04/2003	06/04/2003	06/04/2003						
Time Sampled :	01:40	01:40	01:40	01:40						
%Solids :	76.6	76.8	76.7	76.6						
Dilution Factor :	1.0	1.0	1.0	1.0						
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5140		5400		5080		5640			
ANTIMONY	3.0	J	1.4	J	2.4		8.7			
ARSENIC	3.9		3.3		3.3		13.1			
BARIUM	90.6		75.0		90.4		582			
BERYLLIUM	0.40		0.51		0.41		12.0			
CADMIUM	0.88		0.40		0.90		2.9			
CALCIUM	2170		1500		2340		2180			
CHROMIUM	24.5		7.9		24.8		72.7			
COBALT	3.3		3.7		3.3		123			
COPPER	20.2		9.1		20.5		80.2			
IRON	8640		7640		9560		9450			
LEAD	120		27.4		119		124			
MAGNESIUM	1070		971		1130		1100			
MANGANESE	641		1010		631		781			
MERCURY	0.10		0.10		0.13		0.82			
NICKEL	3.5		3.7		9.2		130			
POTASSIUM	564		579		521		469			
SELENIUM	8.9	U	8.7	U	8.8	U	8.7	U		
SILVER	0.21	J	2.5	U	0.20		11.2			
SODIUM	234		159		226		203			
THALLIUM	1.7		1.4		1.8		14.3			
VANADIUM	13.6		10.2		13.8		136			
ZINC	121		51.4		120		234			
CYANIDE										

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.



**USEPA Contract Laboratory Program  
Inorganic Traffic Report & Chain of Custody Record**

Case No: 31784  
DAS No:  
SDG No: HEILTO

**L**

Date Shipped: 6/5/03  
Carrier Name: FedEx  
Airbill: 813492418419  
Shipped to: Bonner Analytical Testing Co.  
2703 Oak Grove Road  
Hattiesburg MS 39402  
(601) 264-2854

Chain of Custody Record		Sampler Signature:
Relinquished By	(Date / Time)	Received By
1 <i>[Signature]</i>	6/4/03 11:45 AM	<i>[Signature]</i>
2	6-6-03 0840	
3		
4		

**For Lab Use Only**  
Lab Contract No: 68W02067  
Unit Price: \$72.50  
Transfer To:  
Lab Contract No:  
Unit Price:

6/6/03

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME1LT0	Soil (0"-12") Pat Colcord	M/G	ICP/MS (21)	5178392 (Ice Only) (1)	S1	S: 6/4/03 11:25		good
ME1LT1	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021219 (Ice Only) (1)	S2	S: 6/4/03 11:35		
ME1LT2	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021220 (Ice Only) (1)	S3	S: 6/4/03 11:50		
ME1LT3	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021221 (Ice Only) (1)	S4	S: 6/4/03 12:00		
ME1LT4	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021313 (Ice Only) (1)	S5	S: 6/4/03 12:15		
ME1LT5	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021314 (Ice Only) (1)	S6	S: 6/4/03 12:30		
ME1LT6	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021315 (Ice Only) (1)	S7	S: 6/4/03 12:45		
ME1LT7	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021429 (Ice Only) (1)	S8	S: 6/4/03 1:15		
ME1LT8	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021428 (Ice Only) (1)	S9	S: 6/4/03 1:25		
ME1LT9	Soil (0"-12") Tim Johnson	M/G	ICP/MS (21)	5021418 (Ice Only) (1)	S10	S: 6/4/03 11:30		

003

Shipment for Case Complete?	Sample(s) to be used for laboratory QC: ME1LW5	Additional Sampler Signature(s): <i>[Signature]</i>	Cooler Temperature Upon Receipt: 0.3°C	Chain of Custody Seal Number: 27811 and 27812
Analysis Key: ICP/MS = CLP TAL Total Metals ICP/MS	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Intact? <input checked="" type="checkbox"/>

**TR Number: 5-292371269-051903-0001**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-8348 Fax 703/264-9222

**LABORATORY COPY**



# USEPA Contract Laboratory Program Inorganic Traffic Report & Chain of Custody Record

Case No: 31784  
DAS No:  
SDG No: MEILTO

L

Date Shipped: 6/5/03  
Carrier Name: FedEx  
Airbill: 813492418419  
Shipped to: Bonner Analytical Testing Co.  
2703 Oak Grove Road  
Hattiesburg MS 39402  
(601) 264-2854

### Chain of Custody Record

Relinquished By	(Date / Time)	Sampler Signature	(Date / Time)
1 <i>Mark Javoriski</i>	6/4/03/11:45 AM	<i>[Signature]</i>	0846
2 <i>Tim Johnson</i>	6-6-03	<i>[Signature]</i>	
3			
4			

### For Lab Use Only

Lab Contract No: 68W02067  
Unit Price: \$72.00  
Transfer To:  
Lab Contract No:  
Unit Price:

ORGANIC SAMPLE No. ORGANIC SAMPLE No. FOR LAB USE ONLY Sample Condition On Receipt

INORGANIC SAMPLE No.	MATRIX SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.
ME1LW0	Soil (0"-12")/ Tim Johnson	M/G	ICP/MS (21)	5021417 (Ice Only) (1)	S11	S: 6/4/03 12:00	g <sup>nd</sup>
ME1LW1	Soil (0"-12")/ Mark Javoriski	M/G	ICP/MS (21)	5021502 (Ice Only) (1)	S12	S: 6/4/03 12:00	
ME1LW2	Soil (0"-12")/ Mark Javoriski	M/G	ICP/MS (21)	5021503 (Ice Only) (1)	S13	S: 6/4/03 12:30	
ME1LW3	Soil (0"-12")/ Mark Javoriski	M/G	ICP/MS (21)	5021504 (Ice Only) (1)	S14	S: 6/4/03 12:50	
ME1LW4	Soil (0"-12")/ Mark Javoriski	M/G	ICP/MS (21)	5021574 (Ice Only) (1)	S15	S: 6/4/03 1:15	
ME1LW5	Soil (0"-12")/ Mark Javoriski	M/G	ICP/MS (21)	5186575 (Ice Only) (1)	S16	S: 6/4/03 1:40	
ME1LW6	Soil (0"-12")/ Mark Javoriski	M/G	ICP/MS (21)	5186576 (Ice Only) (1)	S17	S: 6/4/03 1:40	

004

Shipment for Case Complete?	Sample(s) to be used for laboratory QC: ME1LW5	Additional Sampler Signature(s): <i>[Signature]</i>	Cooler Temperature Upon Receipt: 0.3°C	Chain of Custody Seal Number: 27811 and 27812
Analysis Key: ICP/MS = CLP TAL Total Metals ICP/MS	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment lead? <input checked="" type="checkbox"/>

TR Number: 5-292371269-051903-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA, 20191-3400 Phone 703/264-9348 Fax 703/264-9222

LABORATORY COPY

# Bonner Analytical Testing Company



2703 Oak Grove Road, Hattiesburg, MS 39402  
Phone: (601) 264-2854 Fax: (601) 268-7084

## SDG NARRATIVE:

SDG Number: ME1LT0

Case Number: 31784

Contract Number: 68W02067

Samples in this SDG were received at BATCO on 06-06-03 under FedEx airbill number 8134 9241 8419, respectively. Custody seals were present and intact, and the cooler temp measured 0.3°C, respectively. Sample ME1LW5 was listed for QC. Samples were processed by the Sample Custodian upon receipt. E-mails within this CSF can be referred to for discrepancies found during sample receipt.

### Sample Receipt

1. No temp blank was present inside the cooler upon receipt.

Resolution: In accordance with previous direction from Region 5, if the cooler temp is less than or equal to 10°C, the laboratory will note the issue, and the method used to determine the temp, in the SDG Narrative and proceed with the analysis of the samples.

### ICP-AES Metals

The first analytical run for ICP Metals was performed on 06/12/03 at 1659 hrs. The Matrix Spike ME1LW5S failed to meet criteria for antimony and selenium. A Post Analytical Spike was performed at twice the CRQL levels for antimony (240ppb) and selenium (140ppb). Samples ME1LW0, ME1LW1, ME1LW2 were above the linear range for iron. CRI04 failed to meet criteria for zinc.

The final analytical run for ICP Metals was performed on 06/13/03 at 0938 hrs. This run was analyzed for iron and zinc only. Samples ME1LW0, ME1LW1, and ME1LW2 were analyzed for iron at appropriate dilutions due to the linear range issue from the previous run. Those samples that were associated with the failure of the CRI04 from the previous run were analyzed for zinc. Sample ME1LT9 was above the linear range for iron during this run. The sample was diluted 1:3 and reanalyzed for iron.

CV-AA Mercury

No Discrepancies

CSF

No Discrepancies

Authorized by 

Steve Flowers

Quality Assurance Officer

Lab Name: Bonner Analytical Testing Company Contract: 68W02067  
 Lab Code: BONNER Case No: 31784 NRAS No.: \_\_\_\_\_ SDG No: ME1LT0  
 SOW No.: ILM05.2

EPA Sample No.	Lab Sample ID
ME1LT0	BT85738
ME1LT1	BT85739
ME1LT2	BT85740
ME1LT3	BT85741
ME1LT4	BT85742
ME1LT5	BT85743
ME1LT6	BT85744
ME1LT7	BT85745
ME1LT8	BT85746
ME1LT9	BT85747
ME1LW0	BT85748
ME1LW1	BT85749
ME1LW2	BT85750
ME1LW3	BT85751
ME1LW4	BT85752
ME1LW5	BT85753
ME1LW5D	BT85753D
ME1LW5S	BT85753S
ME1LW6	BT85754

	(Yes/No)	ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	<u>YES</u>	<u>YES</u>
If yes, were raw data generated before application of background corrections?	(Yes/No)	<u>NO</u>	<u>NO</u>

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:  Name: Christopher M. Bonner  
 Date: 6/16/03 Title: Inorganic Laboratory Manager

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INORGANIC ANALYSIS DATA SHEET

008

EPA SAMPLE NO.

ME1LTO

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LTO  
 Matrix (soil/water): SOIL Lab Sample ID: BT85738  
 Level (low/med): LOW Date Received: 6/6/2003  
 % Solids: 85.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5460			P
7440-36-0	Antimony	2.3	J	N	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	89.2			P
7440-41-7	Beryllium	0.46	J		P
7440-43-9	Cadmium	1.0	J		P
7440-70-2	Calcium	13500			P
7440-47-3	Chromium	17.5			P
7440-48-4	Cobalt	3.7	J		P
7440-50-8	Copper	19.7			P
7439-89-6	Iron	10400			P
7439-92-1	Lead	145			P
7439-95-4	Magnesium	3740			P
7439-96-5	Manganese	482			P
7439-97-6	Mercury	0.070	J		CV
7440-02-0	Nickel	9.9			P
7440-09-7	Potassium	641	J		P
7782-49-2	Selenium	7.9	U	N	P
7440-22-4	Silver	0.11	J		P
7440-23-5	Sodium	153	J		P
7440-28-0	Thallium	1.0	J		P
7440-62-2	Vanadium	17.9			P
7440-66-6	Zinc	172			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter, Rocks  
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1A-IN  
INORGANIC ANALYSIS DATA SHEET

009

EPA SAMPLE NO.

ME1LT1

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85739  
 Level (low/med): LOW Date Received: 6/6/2003  
 % Solids: 85.1  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4540			P
7440-36-0	Antimony	2.2	J	N	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	58.9			P
7440-41-7	Beryllium	0.35	J		P
7440-43-9	Cadmium	0.67	J		P
7440-70-2	Calcium	2220			P
7440-47-3	Chromium	16.0			P
7440-48-4	Cobalt	3.2	J		P
7440-50-8	Copper	13.1			P
7439-89-6	Iron	7490			P
7439-92-1	Lead	104			P
7439-95-4	Magnesium	1090	J		P
7439-96-5	Manganese	416			P
7439-97-6	Mercury	0.087	J		CV
7440-02-0	Nickel	7.4	J		P
7440-09-7	Potassium	410	J		P
7782-49-2	Selenium	8.1	U	N	P
7440-22-4	Silver	2.3	U		P
7440-23-5	Sodium	184	J		P
7440-28-0	Thallium	1.4	J		P
7440-62-2	Vanadium	12.0			P
7440-66-6	Zinc	95.9			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter, Rocks  
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010

EPA SAMPLE NO.

MEILT2

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: MEILT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85740  
 Level (low/med): LOW Date Received: 6/6/2003  
 Solids: 89.4  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4480			P
7440-36-0	Antimony	1.5	J	N	P
7440-38-2	Arsenic	3.2	J		P
7440-39-3	Barium	52.8			P
7440-41-7	Beryllium	0.30	J		P
7440-43-9	Cadmium	0.35	J		P
7440-70-2	Calcium	954	J		P
7440-47-3	Chromium	7.8			P
7440-48-4	Cobalt	2.9	J		P
7440-50-8	Copper	12.3			P
7439-89-6	Iron	6700			P
7439-92-1	Lead	81.6			P
7439-95-4	Magnesium	815	J		P
7439-96-5	Manganese	368			P
7439-97-6	Mercury	0.057	J		CV
7440-02-0	Nickel	6.2	J		P
7440-09-7	Potassium	363	J		P
7782-49-2	Selenium	7.8	U	N	P
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	162	J		P
7440-28-0	Thallium	0.86	J		P
7440-62-2	Vanadium	11.0	J		P
7440-66-6	Zinc	62.3			P

Color Before: Brown Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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011

EPA SAMPLE NO.

ME1LT3

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85741  
 Level (low/med): LOW Date Received: 6/6/2003  
 % Solids: 81.2  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4390			P
7440-36-0	Antimony	2.6	J	N	P
7440-38-2	Arsenic	22.9			P
7440-39-3	Barium	104			P
7440-41-7	Beryllium	0.47	J		P
7440-43-9	Cadmium	0.69	J		P
7440-70-2	Calcium	6240			P
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt	3.0	J		P
7440-50-8	Copper	17.3			P
7439-89-6	Iron	7950			P
7439-92-1	Lead	117			P
7439-95-4	Magnesium	1770			P
7439-96-5	Manganese	436			P
7439-97-6	Mercury	0.24			CV
7440-02-0	Nickel	7.4	J		P
7440-09-7	Potassium	535	J		P
7782-49-2	Selenium	8.2	U	N	P
7440-22-4	Silver	0.20	J		P
7440-23-5	Sodium	253	J		P
7440-28-0	Thallium	0.93	J		P
7440-62-2	Vanadium	14.0			P
7440-66-6	Zinc	142			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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1A-IN  
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012

EPA SAMPLE NO.

ME1LT4

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85742  
 Level (low/med): LOW Date Received: 6/6/2003  
 % Solids: 83.4  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5590			P
7440-36-0	Antimony	2.4	J	N	P
7440-38-2	Arsenic	5.7			P
7440-39-3	Barium	65.4			P
7440-41-7	Beryllium	0.39	J		P
7440-43-9	Cadmium	0.62	J		P
7440-70-2	Calcium	18700			P
7440-47-3	Chromium	12.2			P
7440-48-4	Cobalt	3.7	J		P
7440-50-8	Copper	16.8			P
7439-89-6	Iron	10500			P
7439-92-1	Lead	158			P
7439-95-4	Magnesium	7870			P
7439-96-5	Manganese	415			P
7439-97-6	Mercury	0.079	J		CV
7440-02-0	Nickel	9.2	J		P
7440-09-7	Potassium	929	J		P
7782-49-2	Selenium	8.3	U	N	P
7440-22-4	Silver	2.4	U		P
7440-23-5	Sodium	190	J		P
7440-28-0	Thallium	0.65	J		P
7440-62-2	Vanadium	15.6			P
7440-66-6	Zinc	125			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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013

EPA SAMPLE NO.

ME1LT5

Lab Name: Bonner Analytical Testing Contract: 68W02067

Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0

Matrix (soil/water): SOIL Lab Sample ID: BT85743

Level (low/med): LOW Date Received: 6/6/2003

Solids: 78.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8260			P
7440-36-0	Antimony	2.6	J	N	P
7440-38-2	Arsenic	5.1			P
7440-39-3	Barium	129			P
7440-41-7	Beryllium	0.48	J		P
7440-43-9	Cadmium	0.71	J		P
7440-70-2	Calcium	3510			P
7440-47-3	Chromium	26.6			P
7440-48-4	Cobalt	4.9	J		P
7440-50-8	Copper	14.4			P
7439-89-6	Iron	10900			P
7439-92-1	Lead	65.3			P
7439-95-4	Magnesium	1630			P
7439-96-5	Manganese	603			P
7439-97-6	Mercury	0.096	J		CV
7440-02-0	Nickel	10.1			P
7440-09-7	Potassium	934	J		P
7782-49-2	Selenium	8.6	U	N	P
7440-22-4	Silver	0.09	J		P
7440-23-5	Sodium	175	J		P
7440-28-0	Thallium	1.6	J		P
7440-62-2	Vanadium	19.3			P
7440-66-6	Zinc	115			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium

Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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1A-IN  
INORGANIC ANALYSIS DATA SHEET

014

EPA SAMPLE NO.

ME1LT6

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85744  
 Level (low/med): LOW Date Received: 6/6/2003  
 Solids: 82.2  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5130			P
7440-36-0	Antimony	2.5	J	N	P
7440-38-2	Arsenic	4.1			P
7440-39-3	Barium	294			P
7440-41-7	Beryllium	0.31	J		P
7440-43-9	Cadmium	0.71	J		P
7440-70-2	Calcium	1530			P
7440-47-3	Chromium	24.2			P
7440-48-4	Cobalt	3.9	J		P
7440-50-8	Copper	12.8			P
7439-89-6	Iron	8190			P
7439-92-1	Lead	384			P
7439-95-4	Magnesium	1080	J		P
7439-96-5	Manganese	249			P
7439-97-6	Mercury	0.10	J		CV
7440-02-0	Nickel	7.7	J		P
7440-09-7	Potassium	663	J		P
7782-49-2	Selenium	8.3	U	N	P
7440-22-4	Silver	0.07	J		P
7440-23-5	Sodium	150	J		P
7440-28-0	Thallium	0.71	J		P
7440-62-2	Vanadium	12.3			P
7440-66-6	Zinc	251			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

015

EPA SAMPLE NO.

ME1LT7

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85745  
 Level (low/med): LOW Date Received: 6/6/2003  
 Solids: 87.4  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5620			P
7440-36-0	Antimony	2.6	J	N	P
7440-38-2	Arsenic	3.2	J		P
7440-39-3	Barium	119			P
7440-41-7	Beryllium	0.36	J		P
7440-43-9	Cadmium	1.1	J		P
7440-70-2	Calcium	16000			P
7440-47-3	Chromium	16.8			P
7440-48-4	Cobalt	3.6	J		P
7440-50-8	Copper	20.9			P
7439-89-6	Iron	9560			P
7439-92-1	Lead	228			P
7439-95-4	Magnesium	8440			P
7439-96-5	Manganese	546			P
7439-97-6	Mercury	0.75			CV
7440-02-0	Nickel	9.7			P
7440-09-7	Potassium	729	J		P
7782-49-2	Selenium	7.9	U	N	P
7440-22-4	Silver	0.17	J		P
7440-23-5	Sodium	155	J		P
7440-28-0	Thallium	1.3	J		P
7440-62-2	Vanadium	13.2			P
7440-66-6	Zinc	230			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

016

EPA SAMPLE NO.

ME1LT8

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85746  
 Level (low/med): LOW Date Received: 6/6/2003  
 Solids: 83.2  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5110			P
7440-36-0	Antimony	2.1	J	N	P
7440-38-2	Arsenic	3.2	J		P
7440-39-3	Barium	103			P
7440-41-7	Beryllium	0.39	J		P
7440-43-9	Cadmium	0.57	J		P
7440-70-2	Calcium	1950			P
7440-47-3	Chromium	9.2			P
7440-48-4	Cobalt	3.7	J		P
7440-50-8	Copper	15.3			P
7439-89-6	Iron	7240			P
7439-92-1	Lead	68.1			P
7439-95-4	Magnesium	870	J		P
7439-96-5	Manganese	670			P
7439-97-6	Mercury	0.096	J		CV
7440-02-0	Nickel	7.2	J		P
7440-09-7	Potassium	555	J		P
7782-49-2	Selenium	8.0	U	N	P
7440-22-4	Silver	2.3	U		P
7440-23-5	Sodium	167	J		P
7440-28-0	Thallium	1.5	J		P
7440-62-2	Vanadium	11.1	J		P
7440-66-6	Zinc	102			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

017

EPA SAMPLE NO.

ME1LT9

Lab Name: Bonner Analytical Testing Contract: 68W02067

Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0

Matrix (soil/water): SOIL Lab Sample ID: BT85747

Level (low/med): LOW Date Received: 6/6/2003

% Solids: 87.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3300			P
7440-36-0	Antimony	9.3	J	N	P
7440-38-2	Arsenic	3.3			P
7440-39-3	Barium	44.8			P
7440-41-7	Beryllium	0.29	J		P
7440-43-9	Cadmium	1.1			P
7440-70-2	Calcium	9890			P
7440-47-3	Chromium	82.8			P
7440-48-4	Cobalt	3.2	J		P
7440-50-8	Copper	163			P
7439-89-6	Iron	53200			P
7439-92-1	Lead	34.6			P
7439-95-4	Magnesium	5220			P
7439-96-5	Manganese	616			P
7439-97-6	Mercury	0.071	J		CV
7440-02-0	Nickel	55.2			P
7440-09-7	Potassium	392	J		P
7782-49-2	Selenium	7.6	U	N	P
7440-22-4	Silver	0.11	J		P
7440-23-5	Sodium	478	J		P
7440-28-0	Thallium	2.0	J		P
7440-62-2	Vanadium	10.6	J		P
7440-66-6	Zinc	85.7			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium

Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Rocks  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

018

EPA SAMPLE NO.

ME1LW0

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85748  
 Level (low/med): LOW Date Received: 6/6/2003  
 Solids: 84.4  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4500			P
7440-36-0	Antimony	7.8	J	N	P
7440-38-2	Arsenic	6.1			P
7440-39-3	Barium	82.4			P
7440-41-7	Beryllium	0.37	J		P
7440-43-9	Cadmium	2.3			P
7440-70-2	Calcium	4930			P
7440-47-3	Chromium	40.4			P
7440-48-4	Cobalt	3.5	J		P
7440-50-8	Copper	151			P
7439-89-6	Iron	35400			P
7439-92-1	Lead	251			P
7439-95-4	Magnesium	2280			P
7439-96-5	Manganese	1100			P
7439-97-6	Mercury	0.12	J		CV
7440-02-0	Nickel	35.3			P
7440-09-7	Potassium	456	J		P
7782-49-2	Selenium	8.1	U	N	P
7440-22-4	Silver	0.78	J		P
7440-23-5	Sodium	275	J		P
7440-28-0	Thallium	2.4	J		P
7440-62-2	Vanadium	15.8			P
7440-66-6	Zinc	436			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

019

EPA SAMPLE NO.

ME1LW1

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LTO  
 Matrix (soil/water): SOIL Lab Sample ID: BT85749  
 Level (low/med): LOW Date Received: 6/6/2003  
 % Solids: 85.2  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4610			P
7440-36-0	Antimony	6.0	J	N	P
7440-38-2	Arsenic	6.1			P
7440-39-3	Barium	73.2			P
7440-41-7	Beryllium	0.40	J		P
7440-43-9	Cadmium	2.5			P
7440-70-2	Calcium	5580			P
7440-47-3	Chromium	35.2			P
7440-48-4	Cobalt	3.6	J		P
7440-50-8	Copper	97.5			P
7439-89-6	Iron	36800			P
7439-92-1	Lead	229			P
7439-95-4	Magnesium	2590			P
7439-96-5	Manganese	1060			P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	33.3			P
7440-09-7	Potassium	477	J		P
7782-49-2	Selenium	8.1	U	N	P
7440-22-4	Silver	0.84	J		P
7440-23-5	Sodium	255	J		P
7440-28-0	Thallium	2.3	J		P
7440-62-2	Vanadium	15.2			P
7440-66-6	Zinc	439			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

020

EPA SAMPLE NO.

ME11W2

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME11T0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85750  
 Level (low/med): LOW Date Received: 6/6/2003  
 ‡ Solids: 84.6  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2580			P
7440-36-0	Antimony	15.5		N	P
7440-38-2	Arsenic	205			P
7440-39-3	Barium	42.8	J		P
7440-41-7	Beryllium	0.15	J		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	6760			P
7440-47-3	Chromium	269			P
7440-48-4	Cobalt	6.5	J		P
7440-50-8	Copper	313			P
7439-89-6	Iron	249000			P
7439-92-1	Lead	139			P
7439-95-4	Magnesium	1580			P
7439-96-5	Manganese	1050			P
7439-97-6	Mercury	0.050	J		CV
7440-02-0	Nickel	132			P
7440-09-7	Potassium	240	J		P
7782-49-2	Selenium	8.2	U	N	P
7440-22-4	Silver	0.17	J		P
7440-23-5	Sodium	336	J		P
7440-28-0	Thallium	4.1	J		P
7440-62-2	Vanadium	16.3			P
7440-66-6	Zinc	79.3			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter, Rocks  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

021

EPA SAMPLE NO.

ME11W3

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME11T0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85751  
 Level (low/med): LOW Date Received: 6/6/2003  
 Solids: 77.4  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5060			P
7440-36-0	Antimony	1.7	J	N	P
7440-38-2	Arsenic	2.4	J		P
7440-39-3	Barium	50.7	J		P
7440-41-7	Beryllium	0.36	J		P
7440-43-9	Cadmium	0.27	J		P
7440-70-2	Calcium	1490			P
7440-47-3	Chromium	7.0			P
7440-48-4	Cobalt	2.7	J		P
7440-50-8	Copper	5.8	J		P
7439-89-6	Iron	5730			P
7439-92-1	Lead	30.9			P
7439-95-4	Magnesium	822	J		P
7439-96-5	Manganese	672			P
7439-97-6	Mercury	0.067	J		CV
7440-02-0	Nickel	5.7	J		P
7440-09-7	Potassium	476	J		P
7782-49-2	Selenium	9.0	U	N	P
7440-22-4	Silver	2.6	U		P
7440-23-5	Sodium	155	J		P
7440-28-0	Thallium	1.3	J		P
7440-62-2	Vanadium	8.8	J		P
7440-66-6	Zinc	42.5			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

022

EPA SAMPLE NO.

ME1LW4

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LTO  
 Matrix (soil/water): SOIL Lab Sample ID: BT85752  
 Level (low/med): LOW Date Received: 6/6/2003  
 ‡ Solids: 81.8  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4020			P
7440-36-0	Antimony	1.5	J	N	P
7440-38-2	Arsenic	2.1	J		P
7440-39-3	Barium	44.5	J		P
7440-41-7	Beryllium	0.25	J		P
7440-43-9	Cadmium	0.22	J		P
7440-70-2	Calcium	1660			P
7440-47-3	Chromium	6.1			P
7440-48-4	Cobalt	3.1	J		P
7440-50-8	Copper	5.3	J		P
7439-89-6	Iron	7430			P
7439-92-1	Lead	11.8			P
7439-95-4	Magnesium	872	J		P
7439-96-5	Manganese	466			P
7439-97-6	Mercury	0.057	J		CV
7440-02-0	Nickel	6.0	J		P
7440-09-7	Potassium	518	J		P
7782-49-2	Selenium	8.1	U	N	P
7440-22-4	Silver	2.3	U		P
7440-23-5	Sodium	150	J		P
7440-28-0	Thallium	0.65	J		P
7440-62-2	Vanadium	9.9	J		P
7440-66-6	Zinc	33.7			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

023

EPA SAMPLE NO.

ME1LW5

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Matrix (soil/water): SOIL Lab Sample ID: BT85753  
 Level (low/med): LOW Date Received: 6/6/2003  
 ‡ Solids: 76.6  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5140			P
7440-36-0	Antimony	3.0	J	N	P
7440-38-2	Arsenic	3.9			P
7440-39-3	Barium	90.6			P
7440-41-7	Beryllium	0.40	J		P
7440-43-9	Cadmium	0.88	J		P
7440-70-2	Calcium	2170			P
7440-47-3	Chromium	24.5			P
7440-48-4	Cobalt	3.3	J		P
7440-50-8	Copper	20.2			P
7439-89-6	Iron	8640			P
7439-92-1	Lead	120			P
7439-95-4	Magnesium	1070	J		P
7439-96-5	Manganese	641			P
7439-97-6	Mercury	0.10	J		CV
7440-02-0	Nickel	8.5	J		P
7440-09-7	Potassium	564	J		P
7782-49-2	Selenium	8.9	U	N	P
7440-22-4	Silver	0.21	J		P
7440-23-5	Sodium	234	J		P
7440-28-0	Thallium	1.7	J		P
7440-62-2	Vanadium	13.6			P
7440-66-6	Zinc	121			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter  
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USEPA - CLP  
1A-IN  
INORGANIC ANALYSIS DATA SHEET

024

EPA SAMPLE NO.

ME1LW6

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LTO  
 Matrix (soil/water): SOIL Lab Sample ID: BT85754  
 Level (low/med): LOW Date Received: 6/6/2003  
 † Solids: 76.8  
 Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5400			P
7440-36-0	Antimony	1.4	J	N	P
7440-38-2	Arsenic	3.3	J		P
7440-39-3	Barium	75.0			P
7440-41-7	Beryllium	0.51	J		P
7440-43-9	Cadmium	0.40	J		P
7440-70-2	Calcium	1500			P
7440-47-3	Chromium	7.9			P
7440-48-4	Cobalt	3.7	J		P
7440-50-8	Copper	9.1			P
7439-89-6	Iron	7640			P
7439-92-1	Lead	27.4			P
7439-95-4	Magnesium	971	J		P
7439-96-5	Manganese	1010			P
7439-97-6	Mercury	0.10	J		CV
7440-02-0	Nickel	9.7	J		P
7440-09-7	Potassium	579	J		P
7782-49-2	Selenium	8.7	U	N	P
7440-22-4	Silver	2.5	U		P
7440-23-5	Sodium	159	J		P
7440-28-0	Thallium	1.4	J		P
7440-62-2	Vanadium	10.2	J		P
7440-66-6	Zinc	51.4			P

Color Before: Black Clarity Before: \_\_\_\_\_ Texture: Medium  
 Color After: Yellow Clarity After: \_\_\_\_\_ Artifacts: Yes

Comments: Plant Matter, Rocks  
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## USEPA - CLP

3-IN

BLANKS

032

Lab Name: Bonner Analytical Testing CompContract: 68W02067Lab Code: BONNERCase No.: 31784

NRAS No.: \_\_\_\_\_

SDG NO.: ME1LTOPreparation Blank Matrix (soil/water): SOILPreparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum	200.0	U	9.8	J	8.7	J	18.9	J	0.632	J	P
Antimony	15.3	J	20.8	J	23.3	J	21.3	J	12.000	U	P
Arsenic	15.0	U	15.0	U	15.0	U	15.0	U	3.000	U	P
Barium	0.4	J	5.2	J	6.2	J	5.5	J	-0.040	J	P
Beryllium	5.00	U	5.00	U	5.00	U	0.02	J	-0.006	J	P
Cadmium	0.1	J	0.5	J	0.3	J	0.3	J	1.000	U	P
Calcium	5000.0	U	5000.0	U	5000.0	U	15.5	J	1000.000	U	P
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Cobalt	0.4	J	50.0	U	0.4	J	0.5	J	10.000	U	P
Copper	25.0	U	25.0	U	25.0	U	25.0	U	-0.111	J	P
Iron	100.0	U	100.0	U	9.0	J	8.1	J	20.000	U	P
Lead	10.0	U	10.0	U	10.0	U	10.0	U	2.000	U	P
Magnesium	7.6	J	18.7	J	15.5	J	28.0	J	0.624	J	P
Manganese	-0.1	J	0.2	J	0.9	J	0.3	J	3.000	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	0.212	J	P
Potassium	-42.1	J	-54.1	J	-28.0	J	-50.1	J	-6.515	J	P
Selenium	-5.3	J	35.0	U	35.0	U	35.0	U	7.000	U	P
Silver	0.8	J	0.8	J	10.0	U	1.0	J	2.000	U	P
Sodium	5000.0	U	191.1	J	135.6	J	5000.0	U	134.535	J	P
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	5.000	U	P
Vanadium	50.0	U	0.3	J	50.0	U	-0.2	J	10.000	U	P
Zinc	-13.8	J	-13.4	J	-15.3	J	-13.0	J	-0.592	J	P



## USEPA - CLP

3-IN

BLANKS

033

Lab Name: Bonner Analytical Testing Comp Contract: 68W02067Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LTOPreparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum			13.1	J							P
Antimony			20.8	J							P
Arsenic			15.0	U							P
Barium			5.2	J							P
Beryllium			5.00	U							P
Cadmium			0.3	J							P
Calcium			5000.0	U							P
Chromium			10.0	U							P
Cobalt			0.4	J							P
Copper			25.0	U							P
Iron			7.0	J							P
Lead			10.0	U							P
Magnesium			24.4	J							P
Manganese			0.3	J							P
Mercury			0.2	U							CV
Nickel			40.0	U							P
Potassium			-46.5	J							P
Selenium			35.0	U							P
Silver			0.8	J							P
Sodium			179.5	J							P
Thallium			25.0	U							P
Vanadium			50.0	U							P

## USEPA - CLP

3-IN

BLANKS

034

Lab Name: Bonner Analytical Testing Comp Contract: 68W02067Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Iron	100.0	U	100.0	U	6.9	J	100.0	U			P
Zinc	60.0	U	1.2	J	2.1	J	4.2	J			P

USEPA - CLP  
5A-IN

038 *0377*  
*6.16.03*

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME1LW5S

Lab Name: Bonner Analytical Testing Contract: 68W02067

Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0

Matrix (soil/water): SOIL Level (low/med): LOW

Solids for Sample: 76.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		5639.0640		5137.9702		0.00	0		P
Antimony	75 - 125	9.7032	J	2.9640	J	24.87	27	N	P
Arsenic	75 - 125	13.1051		3.8962		9.95	93		P
Barium	75 - 125	582.1644		90.5610		497.33	99		P
Beryllium	75 - 125	11.9536		0.4022	J	12.43	93		P
Cadmium	75 - 125	12.8691		0.8826	J	12.43	96		P
Calcium		2180.8311		2170.8701		0.00	0		P
Chromium	75 - 125	72.6770		24.5404		49.73	97		P
Cobalt	75 - 125	122.8582		3.2809	J	124.33	96		P
Copper	75 - 125	80.1926		20.1800		62.17	97		P
Iron		9449.2881		8636.0322		0.00	0		P
Lead		124.4613		119.8134		4.97	94		P
Magnesium		1101.4440	J	1067.0341	J	0.00	0		P
Manganese		780.9346		641.4050		124.33	112		P
Mercury	75 - 125	0.8159		0.1044	J	0.65	109		CV
Nickel	75 - 125	130.2523		8.4802	J	124.33	98		P
Potassium		468.5372	J	564.0027	J	0.00	0		P
Selenium	75 - 125	8.7032	U	8.7032	U	12.43	0	N	P
Silver	75 - 125	11.1850		0.2099	J	12.43	88		P
Sodium		202.8587	J	233.7283	J	0.00	0		P
Thallium	75 - 125	14.2548		1.7013	J	12.43	101		P
Vanadium	75 - 125	135.5496		13.6019		124.33	98		P
Zinc	75 - 125	233.9302		120.9834		124.33	91		P

Comments:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## USEPA - CLP

5B-IN

## POST-DIGESTION SPIKE SAMPLE RECOVERY

039

EPA SAMPLE NO.

ME1LW5A

Lab Name: Bonner Analytical Testing CompaContract: 68W02067Lab Code: BONNER Case No.: 31784NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0Matrix (soil/water): SOILLevel (low/med): LOWConcentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C		Spike Added (SA)	%R	Q	M
Antimony		231.27	23.39	J	240.0	87		P
Selenium		53.99	4.60	U	140.0	39		P

Comments:

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## USEPA - CLP

6-IN

## DUPLICATES

040

EPA SAMPLE NO.

ME11W5D

Lab Name: Bonner Analytical TestingContract: 68W02067Lab Code: BONNERCase No.: 31784

NRAS No.: \_\_\_\_\_

SDG NO. ME11LT0Matrix (soil/water): SOILLevel (low/med): LOW% Solids for Sample: 76.6% Solids for Duplicate: 76.7Concentration Units: (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		5137.9702		5077.8921		1		P
Antimony		2.9640	J	2.3949	J	21		P
Arsenic		3.8962		3.3106	J	16		P
Barium	50.2109	90.5610		90.4347		0		P
Beryllium		0.4022	J	0.4088	J	2		P
Cadmium		0.8826	J	0.9050	J	3		P
Calcium	1255.2721	2170.8701		2339.0249		7		P
Chromium		24.5404		24.8418		1		P
Cobalt		3.2809	J	3.2958	J	0		P
Copper	6.2764	20.1800		20.5196		2		P
Iron		8636.0322		9560.3369		10		P
Lead		119.8134		119.2149		1		P
Magnesium		1067.0341	J	1127.2250	J	5		P
Manganese		641.4050		630.5084		2		P
Mercury		0.1044	J	0.1299	J	22		CV
Nickel		8.4802	J	9.2068	J	8		P
Potassium		564.0027	J	520.7825	J	8		P
Selenium		8.7869	U	8.7869	U			P
Silver		0.2099	J	0.2001	J	5		P
Sodium		233.7283	J	226.1797	J	3		P
Thallium		1.7013	J	1.7561	J	3		P
Vanadium	12.5527	13.6019		13.8060		1		P
Zinc		120.9834		120.1477		1		P

## USEPA - CLP

9-IN

## METHOD DETECTION LIMITS (ANNUALLY)

043

Name: Bonner Analytical Testing Contract: 68W02067Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME11T0Instrument Type: P Instrument ID: Spectro Ciros02 Date: 1/31/2003Preparation Method: NP1Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	394.40	200	4.7
Antimony	206.83	60	8.7
Arsenic	189.04	15	5.4
Barium	233.53	200	0.40
Beryllium	313.11	5	0.020
Cadmium	226.50	5	0.130
Calcium	318.13	5000	14.3
Chromium	267.72	10	0.80
Cobalt	228.62	50	0.30
Copper	324.75	25	0.5
Iron	261.19	100	6.2
Lead	168.22	10	4.4
Magnesium	279.08	5000	1.4
Manganese	257.61	15	0.10
Nickel	231.60	40	1.90
Potassium	766.49	5000	15.5
Selenium	196.09	35	4.6
Silver	328.07	10	0.60
Sodium	330.24	5000	98.7
Thallium	190.86	25	5.3
Vanadium	292.40	50	0.20
Zinc	213.86	60	1.2

## USEPA - CLP

9-IN

044

## METHOD DETECTION LIMITS (ANNUALLY)

Name: Bonner Analytical Testing Contract: 68W02067Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0Instrument Type: P Instrument ID: Spectro Ciros02 Date: 1/31/2003Preparation Method: HS2Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	394.40	40	0.47
Antimony	206.83	12	0.87
Arsenic	189.04	3	0.54
Barium	233.53	40	0.04
Beryllium	313.11	1	0.002
Cadmium	226.50	1	0.013
Calcium	318.13	1000	1.4
Chromium	267.72	2	0.08
Cobalt	228.62	10	0.03
Copper	324.75	5	0.05
Iron	261.19	20	0.62
Lead	168.22	2	0.44
Magnesium	279.08	1000	0.14
Manganese	257.61	3	0.01
Nickel	231.60	8	0.19
Potassium	766.49	1000	1.55
Selenium	196.09	7	0.46
Silver	328.07	2	0.06
Sodium	330.24	1000	9.8
Thallium	190.86	5	0.53
Vanadium	292.40	10	0.02
Zinc	213.86	12	0.12

## USEPA - CLP

9-IN

## METHOD DETECTION LIMITS (ANNUALLY)

045

Name: Bonner Analytical Testing Contract: 68W02067Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LTOInstrument Type: P Instrument ID: Spectro Ciros02 Date: 1/31/2003Preparation Method: HS2Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Aluminum	394.40	200	4.7
Antimony	206.83	60	8.7
Arsenic	189.04	15	5.4
Barium	233.53	200	0.40
Beryllium	313.11	5	0.020
Cadmium	226.50	5	0.130
Calcium	318.13	5000	14.3
Chromium	267.72	10	0.80
Cobalt	228.62	50	0.30
Copper	324.75	25	0.5
Iron	261.19	100	6.2
Lead	168.22	10	4.4
Magnesium	279.08	5000	1.4
Manganese	257.61	15	0.10
Nickel	231.60	40	1.90
Potassium	766.49	5000	15.5
Selenium	196.09	35	4.6
Silver	328.07	10	0.60
Sodium	330.24	5000	98.7
Thallium	190.86	25	5.3
Vanadium	292.40	50	0.20
Zinc	213.86	60	1.2



## USEPA - CLP

9-IN

046

## METHOD DETECTION LIMITS (ANNUALLY)

Name: Bonner Analytical Testing Contract: 68W02067  
Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
Instrument Type: CV Instrument ID: Leeman01 Date: 11/6/2002  
Preparation Method: CS1  
Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Mercury	253.70	0.20	0.058

## USEPA - CLP

9-IN

## METHOD DETECTION LIMITS (ANNUALLY)

047

Name: Bonner Analytical Testing Contract: 68W02067Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0Instrument Type: CV Instrument ID: Leeman01 Date: 11/6/2002Preparation Method: CS1Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Wave-Length /Mass	CRQL	MDL
Mercury	253.70	0.10	0.029

USEPA - CLP  
12-IN  
PREPARATION LOG

053

Lab Name: Bonner Analytical Testing Contract: 68W02067

Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0

Preparation Method: HS2

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
PBS01	6/12/2003	1.00	100
LCSS01	6/12/2003	1.00	100
ME1LW5	6/12/2003	1.03	100
ME1LW5D	6/12/2003	1.04	100
ME1LW5S	6/12/2003	1.05	100
ME1LT0	6/12/2003	1.03	100
ME1LT1	6/12/2003	1.01	100
ME1LT2	6/12/2003	1.01	100
ME1LT3	6/12/2003	1.05	100
ME1LT4	6/12/2003	1.01	100
ME1LT5	6/12/2003	1.03	100
ME1LT6	6/12/2003	1.03	100
ME1LT7	6/12/2003	1.02	100
ME1LT8	6/12/2003	1.05	100
ME1LT9	6/12/2003	1.06	100
ME1LW0	6/12/2003	1.02	100
ME1LW1	6/12/2003	1.01	100
ME1LW2	6/12/2003	1.01	100
ME1LW3	6/12/2003	1.01	100
ME1LW4	6/12/2003	1.06	100
ME1LW6	6/12/2003	1.05	100

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

USEPA - CLP  
12-IN  
PREPARATION LOG

054

Lab Name: Bonner Analytical Testing Contract: 68W02067  
 Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LT0  
 Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
S0	6/12/2003		100
S0.2	6/12/2003		100
S1	6/12/2003		100
S2	6/12/2003		100
S5	6/12/2003		100
S10	6/12/2003		100
ICV01	6/12/2003		100
ICB01	6/12/2003		100
CRI01	6/12/2003		100
CCV01	6/12/2003		100
CCB01	6/12/2003		100
PBS01	6/12/2003	0.20	100
LCSS01	6/12/2003	0.20	100
ME1LT0	6/12/2003	0.20	100
ME1LT1	6/12/2003	0.20	100
ME1LT2	6/12/2003	0.20	100
ME1LT3	6/12/2003	0.20	100
ME1LT4	6/12/2003	0.20	100
ME1LT5	6/12/2003	0.20	100
ME1LT6	6/12/2003	0.20	100
ME1LT7	6/12/2003	0.20	100
CCV02	6/12/2003		100
CCB02	6/12/2003		100
ME1LT8	6/12/2003	0.20	100
ME1LT9	6/12/2003	0.20	100
ME1LW0	6/12/2003	0.20	100
ME1LW1	6/12/2003	0.20	100
ME1LW2	6/12/2003	0.20	100
ME1LW3	6/12/2003	0.20	100
ME1LW4	6/12/2003	0.20	100
ME1LW5	6/12/2003	0.20	100
CRI02	6/12/2003		100
CCV03	6/12/2003		100
CCB03	6/12/2003		100
ME1LW5D	6/12/2003	0.20	100

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

USEPA - CLP  
12-IN  
PREPARATION LOG

055

Lab Name: Bonner Analytical Testing Contract: 68W02067  
Lab Code: BONNER Case No.: 31784 NRAS No.: \_\_\_\_\_ SDG NO.: ME1LTO  
Preparation Method: CS1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
ME1LW5S	6/12/2003	0.20	100
ME1LW6	6/12/2003	0.20	100
CRI03	6/12/2003		100
CCV04	6/12/2003		100
CCB04	6/12/2003		100

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 Mile Circle

There is 1  
LARGE FORMAT  
MAP WITH THIS  
DOC.

1 Mile Circle

0.5 Mile Circle

Site





January 28, 2008

Ms. Joy Krutek  
Indiana Department of Environmental Management  
Office of Land Quality  
Leaking Underground Storage Tank Section  
100 North Senate Avenue, Room 1101  
Indianapolis, Indiana 46204-2251

RE: Further Site Investigation (FSI) Report  
Former Sibley Foundry  
220 W. Eckman St.  
South Bend, Indiana  
State Cleanup I.D. # 2004-11-003  
SESCO Project # 3316

Dear Ms. Krutek:

SESCO Group (SESCO) is pleased to provide you with this summary of the further site investigation (FSI) activities completed at the Former Sibley Foundry (herein "Site") located at 220 W. Eckman Street, South Bend, Indiana. The additional work was performed at the Site to further delineate soil and groundwater impacts and to address comments made by the Indiana Department of Environmental Management (IDEM) in the "Further Site Investigation Request" letter, dated May 3, 2007, included as **Appendix A**.

## BACKGROUND

The Site is comprised of approximately seven (7) acres of land located in a commercial/industrial area south of the downtown district of the City of South Bend, Indiana (**Figure 1**). The Rum Village and South (Chippewa) Municipal Well Fields are located within the immediate vicinity of the Site. The area around the Rum Village and South Well Fields has been designated by the United States Environmental Protection Agency (USEPA) as the Chippewa Avenue Superfund Site. Groundwater contamination impacting the Well Fields has been attributed to sources from the former AM General Division of LTV and Toro Corporation. Both the former General Division of LTV and Toro Corporation are located near the Site as shown on **Figure 2**.

Sibley Machine and Foundry ("Sibley") operated at the Site from 1874 until July 2004; the Site is currently operated by Accucast Technology. The property was utilized by Sibley for manufacturing castings for the heavy equipment and off-road industry. Pursuant to Indiana law, a release of hazardous substances was reported to the State Cleanup Section of the IDEM on November 1, 2004, based on analytical results from a limited subsurface investigation (LSI) performed by SESCO indicating the presence of metals in the soil and groundwater. IDEM assigned the Site incident number 2004-11-003 and requested delineation of the metals impacts.

SESCO mobilized to the Site in May of 2006 in order to characterize the subsurface conditions in the vicinity of the Site. SESCO advanced ten (10) soil borings (SB-1 through SB-10) using track-mounted direct push technology. Soil borings were advanced to a depth of 25 feet below ground surface (bgs). Three (3) of the soil borings were subsequently converted into monitoring wells (MW-1 through MW-3). SESCO submitted an Initial Site Characterization (ISC) Report to IDEM on February 27, 2007. The ISC Report provided soil and groundwater laboratory analytical results compared to IDEM's Risk Integrated System of Closure (RISC) Industrial Default Closure Levels (IDCLs) and Residential Default Closure Levels (RDCLs).

Soil and groundwater samples collected from the Site were analyzed for the following contaminants of concern (COCs):

- Volatile organic compounds (VOCs) via U.S. EPA Test Method SW 8260,
- Semi-volatile organic compounds (SVOCs) via U.S. EPA Test Method SW 8270,
- Polychlorinated bi-phenyls (PCB)s via U.S. EPA Test Method SW846 Method 8082, and
- Resource Conservation Recovery Act (RCRA) Metals, via U.S. EPA Test Method SW 6010B.

Laboratory analytical results indicate that only one (1) soil boring, SB-10 (15'-17.5'), contained contaminant concentrations of arsenic that exceed the RDCL for soil. Soil samples collected from the remaining soil borings contained COC contaminant levels that were either below method detection levels or below their respective RDCLs.

Groundwater samples collected from SB-1 on September 23, 2004 and the Site monitoring well network (MW-1, MW-2 and MW-3) on September 18, 2006, contained total lead concentrations that exceed IDCLs for groundwater. SESCO re-sampled MW-1, MW-2 and MW-3 on November 21, 2006, and had the samples analyzed for dissolved lead. Dissolved lead concentrations in MW-1, MW-2 and MW-3 were found to be below method detection levels. SESCO reported in the ISC that the total versus dissolved metal contaminant levels detected in groundwater samples collected from MW-1, MW-2 and MW-3 indicated that sedimentation within the groundwater samples caused the higher total metal analytical results; filtered groundwater samples showed that the metal constituents were not present in the groundwater at levels above the IDEM RISC RDCL.

In addition, SESCO's ISC Report showed that VOCs, SVOCs and PCBs were not present in soil or groundwater samples collected from SB-1 through SB-10, MW-1, MW-2 or MW-3 in levels above the RISC RDCL.



SESCO conducted quarterly groundwater monitoring events from the Site's monitoring network (MW-1, MW-2 and MW-3) during the first quarter of 2007 (March 1, 2007) and second quarter of 2007 (June 26, 2007). Laboratory analytical results from both groundwater sampling events showed that groundwater samples contained both total and dissolved RCRA metal constituents that were either below method detection levels or below their respective RDCLs.

IDEM issued a FSI comment letter on May 3, 2007, requesting further on-site delineation of possible soil and groundwater impacts. A copy of the FSI IDEM comment letter is included as **Appendix A**.

### **FSI ACTIVITIES**

On November 5, 2007 SESCO advanced four (4) soil borings in the locations of previous soil boring locations, SB-4, SB-5, SB-8 and SB-9 in order to delineate possible soil impacts. Soil boring locations and subsequent sample depths were selected by IDEM requests outlined in the FSI comment letter.

#### **Soil Sampling Procedures**

Soil samples were collected from each boring using a track mounted Geoprobe 6610 DT drilling rig equipped with direct push technology. Soil borings were advanced to 25 feet below ground surface (bgs). All soil boring locations are illustrated on the Site map provided as **Figure 3**.

Soil samples were collected continuously in intervals of 5 feet in each boring beginning at the ground surface and ending at the terminus of the boring. Core samples were obtained using a 60 inch long, acetate lined, stainless steel core barrel sampler. Core samples were then split into separate soil samples and lithologically described in intervals of 2.5 feet. New disposable acetate liners were used for each sample collection. All reusable equipment exposed to the soil samples was constructed of stainless steel and was decontaminated before each use. Decontamination of equipment involved a detergent wash and water rinse.

Upon retrieval, each soil sample (2.5 feet) was split into two portions. One portion of the sample was immediately placed in a laboratory supplied 4-ounce container(s), equipped with a teflon lined lid, and placed on ice for possible laboratory analysis. The second portion of the sample was placed in a sealable plastic container for headspace analysis. Following placement in the container, the headspace was allowed to equilibrate for approximately 15 minutes. A photo-ionization detector (PID) was then inserted into the container and the maximum instrument response was recorded on the boring log. The total photo-ionizable vapor concentrations (measured in parts per million-vapor (ppm-v)) were recorded in the boring logs. A sample was collected from each boring from the interval which displayed the greatest potential for contamination (i.e., discoloration, odor, elevated PID readings, and lithologic unit) and at the terminus of each boring.

Soil samples were submitted to Microbac Laboratories of Indianapolis, Indiana for RCRA metals utilizing U.S. EPA Test Method SW 6010B, SVOCs using U.S. EPA Test Method SW 8270 and VOCs U.S. EPA Test Method SW 8260.

Boring activity revealed an approximately 1-foot layer of fill material over brown fine to coarse sand. A complete description of soil conditions encountered at each boring location is presented on the boring logs provided in **Appendix B**.

The soil borings were back-filled with bentonite chips after sampling activities were complete. Soil borings installed through asphalt were capped with asphalt patch flush with the surface.

### **Soil Results Summary**

SESCO collected eight (8) soil samples and one (1) duplicate soil sample during FSI activities. The laboratory analytical results indicate that all of the soil samples with the exception of SB-4 (22.5'-25') and SB-9 (22.5'-25') contained contaminant concentrations either below method detection levels or below the respective IDEM RISC RDCLs. The soil sample collected from SB-4 (22.5'-25') contained a concentration of methylene chloride slightly above the RDCL. However, methylene chloride is a common laboratory artifact. Similarly, the soil sample collected from SB-9 (22.5'-25') contained selenium slightly above the RDCL. A summary of the soil analytical results for VOCs and SVOC is provided in **Table 1** and RCRA metal soil concentrations are shown in **Table 2**. A complete copy of the chain-of-custody documentation and laboratory analytical results is provided in **Appendix C**. A soil analytical map showing sample location, depth, and the general area of impacted soil (metals) from SESCO's FSI and previous investigation activities is provided as **Figure 4**.

### **Groundwater Sampling from Monitoring Wells**

SESCO sampled the Site monitoring well network (MW-1 through MW-3) on October 31, 2007. Prior to sampling, static water levels of the entire monitoring well network were measured to the nearest 0.01 foot with a properly decontaminated static water level indicator and referenced to the top-of-well casing elevation.

Groundwater elevation data obtained from the Site's monitoring well network is summarized in **Table 3**. The most recent groundwater gauging event (October 31, 2007), indicates a north northeast groundwater flow direction as indicated on **Figure 5**.

Groundwater samples were collected using low-flow groundwater sampling techniques. Disposable teflon tubing was placed inside each well and positioned with the end of the tubing in the center of the well screen. A peristaltic pump equipped with disposable teflon tubing was used for purging and groundwater sample collection. A Horiba XD-U22 multi-parameter water quality meter and flow-through cell, provided field measurements of pH, temperature, specific conductance, oxidation-reduction potential (ORP) and dissolved oxygen (DO). Water quality parameters were recorded at approximately 3-5 minute intervals to determine when formation water was being drawn from the well.

The flow-through cell and water quality instrument were decontaminated between monitoring well samples using Alconox<sup>®</sup> detergent and water rinse. Purge water was containerized on-site in a 55-gallon steel drum for proper disposal. Water samples were placed into laboratory supplied containers after water quality parameters stabilized and the flow-through cell was disconnected. The groundwater samples were placed in an iced cooler, maintained under a

chain-of-custody form, and delivered to Microbac Laboratories for analysis. Groundwater samples were analyzed for total and dissolved RCRA metals utilizing U.S. EPA method 6010B.

A complete copy of the chain-of-custody documentation and laboratory analytical results is provided in **Appendix C**.

### **Groundwater Analytical Results Summary**

The laboratory analytical results provided in **Table 4** indicate that groundwater samples collected on October 31, 2007, from MW-1, MW-2 and MW-3 contained both total and dissolved metal constituents that were either below method detection levels or below RDCLs.

## **CONCLUSIONS AND RECOMMENDATIONS**

Pursuant to IDEM's FSI requests, SESCO advanced four (4) soil borings in the locations of previous soil boring locations, SB-4, SB-5, SB-8 and SB-9 in order to delineate possible soil impacts. Soil samples were collected from each of the borings at depths requested by IDEM in the May 2007 FSI request letter. Soil samples were analyzed for constituents identified in ISC activities; VOCs, SVOCs and RCRA metals. SESCO collected eight (8) soil samples and one (1) duplicate soil sample during FSI activities. The laboratory analytical results provided in **Table 1** and **Table 2** indicate that all of the soil samples contained contaminant concentrations either below method detection levels or below the IDEM RISC RDCLs with the exception of soil samples collected from SB-4 (22.5'-25') and SB-9 (22.5'-25'). The methylene chloride exceedance found at SB-4 is a likely lab contaminant; shallower intervals sampled at SB-4 (5'-7.5' and 10'-12.5') were non-detect for methylene chloride. Similarly, selenium was found below method detection levels in shallower intervals sampled at SB-9 (5'-7.5' and 15'-17.5'). In addition, selenium has not been detected in groundwater samples collected from the monitoring well located at SB-9 (MW-3).

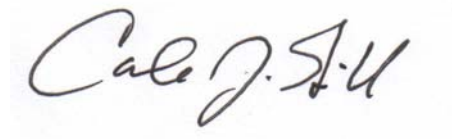
SESCO confirmed the conclusions reached during the ISC, notably that the Site's soil has not been impacted at levels exceeding IDEM's IDCLs.

SESCO also collected groundwater samples from the Site's monitoring well network. The laboratory analytical results provided in **Table 4** shows that groundwater samples collected on October 31, 2007, from MW-1, MW-2 and MW-3 contained both total and dissolved metal constituents that were either below method detection levels or below RDCLs. A review of the historical groundwater analytical results shown in **Table 4** shows that the only exceedances above the IDEM IDCL are for total lead. Subsequent analysis for dissolved lead shows that the concentrations are below method detection levels.

Site investigation activities performed during both the ISC and FSI phases have shown that the Site does not contain subsurface impacts above IDEM's IDCLs. To date, SESCO has submitted three (3) quarterly monitoring events which show groundwater contaminant levels below applicable RISC RDCLs. Pursuant to IDEM's May 3, 2007, letter, SESCO will continue to submit quarterly groundwater monitoring reports four times a year according to the IDEM quarterly reporting schedule.

SESCO looks forward to working with you on this project. If you have any questions please feel free to contact Carla Gill (extension 16) at (317) 347-9590.

Respectfully submitted,  
SESCO Group

Handwritten signature of Carla J. Gill in black ink.

Carla J. Gill, CHMM # 13243  
Project Manager

Handwritten signature of Timothy J. Miller in black ink.

Timothy J. Miller, LPG #714  
Senior Project Manager

cc: Mr. Bill Voll, Sibley Machine and Foundry  
Mr. Joseph Saher, Accucast Technologies  
Mr. Jeff Makowski, Roux, Inc.  
Ms. Jennifer Baker, Resolution Law Group  
SESCO File

## **Figures**

Figure 1 – Site Location Map

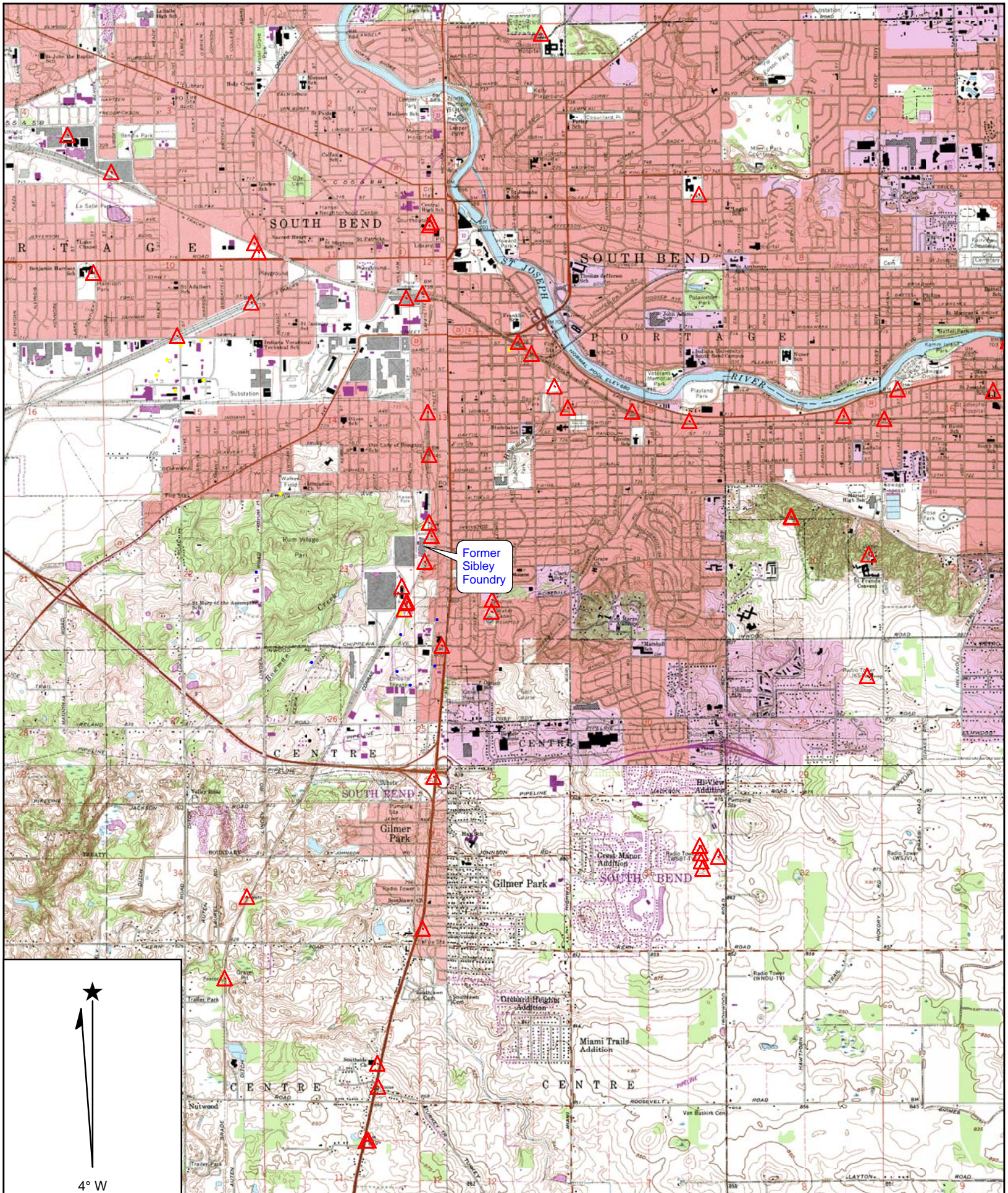
Figure 2 – Aerial Photograph

Figure 3 – Site Map

Figure 4 – Soil Analytical Map

Figure 5 – Potentiometric Map (10/31/2007)

Figure 6 – Groundwater Analytical Map



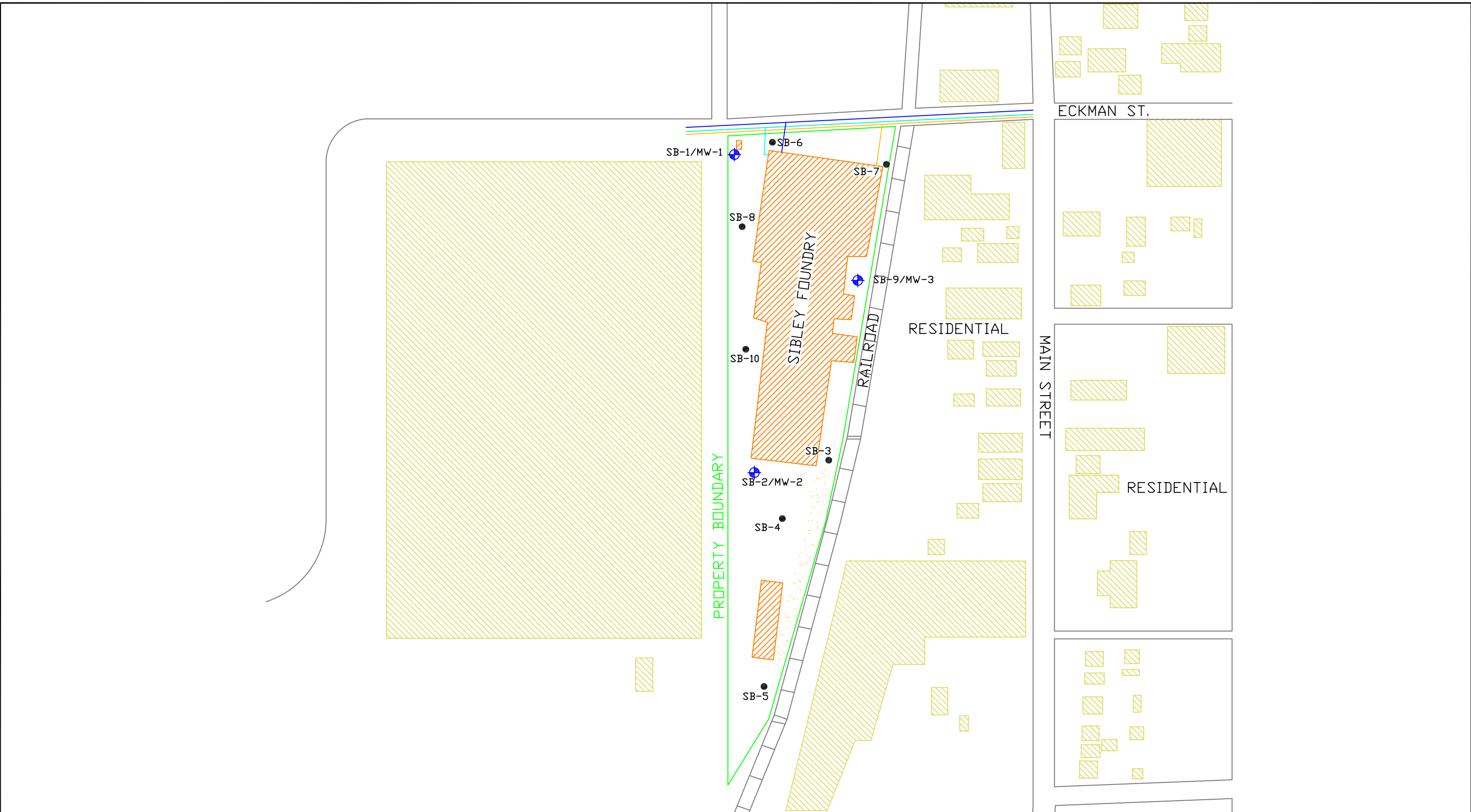
Name: SOUTH BEND EAST  
 Date: 12/19/2007  
 Scale: 1 inch equals 4000 feet

Location: 041° 38' 25.25" N 086° 14' 34.73" W  
 Caption: Figure 1  
 Former Sibley Foundry  
 South Bend, IN



**Figure 2**  
**Site Vicinity Map**  
**Sibley Foundry**  
**South Bend, IN**

Source: terraserver.com



1426 West 29th Street  
 Indianapolis, IN 46208  
 317-347-9590



Scale In Feet



1" = 200'-0"

**LEGEND**

- GAS LINE
- SEWER LINE
- WATER LINE
- OFF SITE BUILDINGS
- ON SITE BUILDINGS
- ⊕ MONITORING WELL
- SOIL BORING

SITE MAP

SIBLEY FOUNDRY  
 220 WEST ECKMAN STREET  
 SOUTH BEND, IN

PROJECT NUMBER = 3316

FIGURE 3



SB-10 (15'-17.5')	
5/31/2006	
Arsenic	12
Barium	21.0
Chromium	15.0
Lead	11.0

SB-3 (15'-17.5')	
5/31/2006	
Barium	5.0
Chromium	10.0
Lead	ND

SB-2 (12.5'-15')	
9/23/2004	
Arsenic	1.2
Barium	4.4
Chromium	2.5
Lead	3.3

SB-1 (7.5'-10')	
9/23/2004	
Arsenic	1.0
Barium	23.0
Chromium	9.7
Lead	6.8

SB-6 (15'-17.5')	
5/30/2006	
Barium	10.0
Chromium	13.0
Lead	4.1

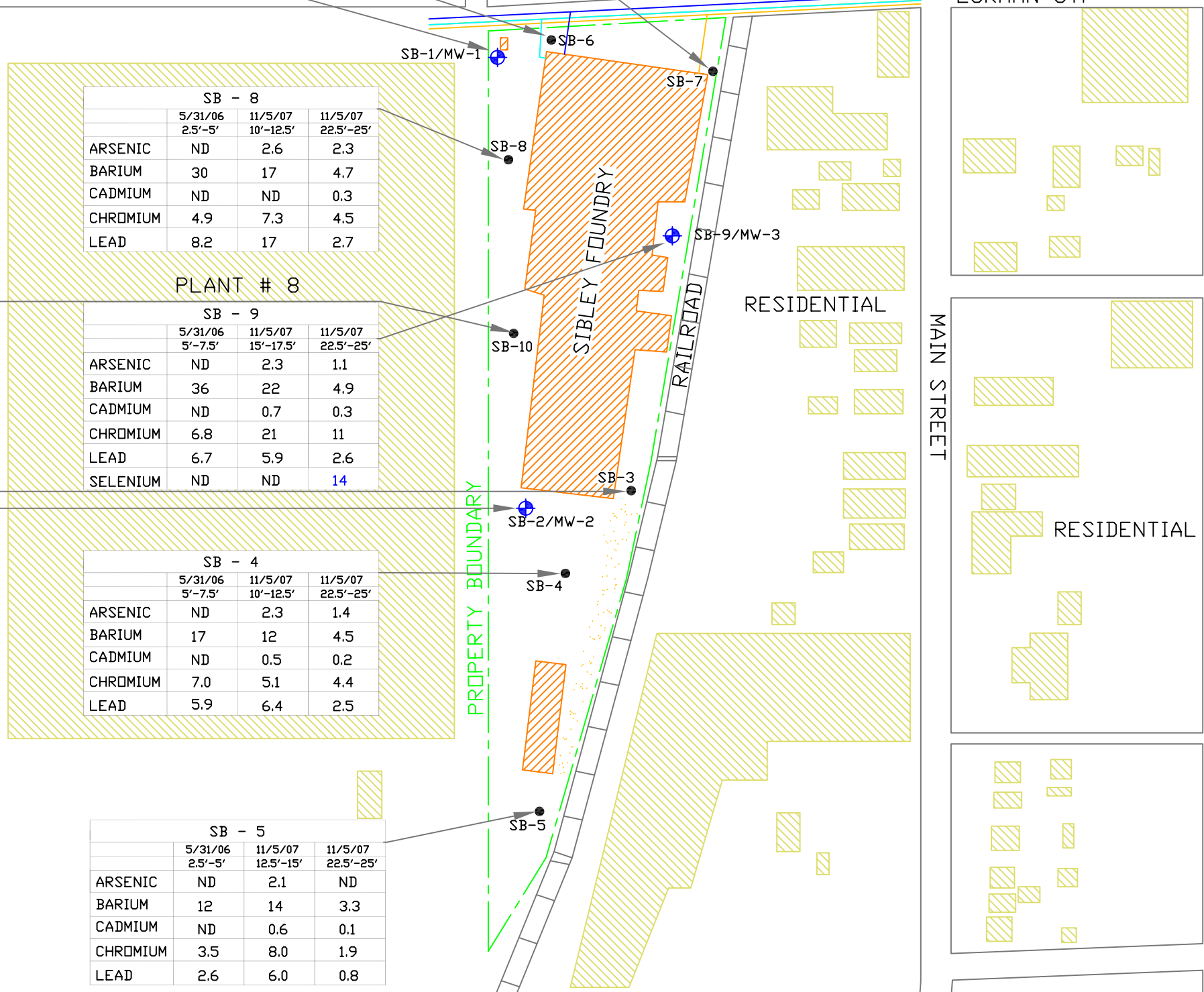
SB-7 (10'-12.5')	
5/30/2006	
Barium	9.6
Chromium	7.1
Lead	12.0

SB - 8			
	5/31/06	11/5/07	11/5/07
	2.5'-5'	10'-12.5'	22.5'-25'
ARSENIC	ND	2.6	2.3
BARIUM	30	17	4.7
CADMIUM	ND	ND	0.3
CHROMIUM	4.9	7.3	4.5
LEAD	8.2	17	2.7

SB - 9			
	5/31/06	11/5/07	11/5/07
	5'-7.5'	15'-17.5'	22.5'-25'
ARSENIC	ND	2.3	1.1
BARIUM	36	22	4.9
CADMIUM	ND	0.7	0.3
CHROMIUM	6.8	21	11
LEAD	6.7	5.9	2.6
SELENIUM	ND	ND	14

SB - 4			
	5/31/06	11/5/07	11/5/07
	5'-7.5'	10'-12.5'	22.5'-25'
ARSENIC	ND	2.3	1.4
BARIUM	17	12	4.5
CADMIUM	ND	0.5	0.2
CHROMIUM	7.0	5.1	4.4
LEAD	5.9	6.4	2.5

SB - 5			
	5/31/06	11/5/07	11/5/07
	2.5'-5'	12.5'-15'	22.5'-25'
ARSENIC	ND	2.1	ND
BARIUM	12	14	3.3
CADMIUM	ND	0.6	0.1
CHROMIUM	3.5	8.0	1.9
LEAD	2.6	6.0	0.8

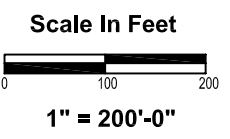


SAMPLE I.D		
DATE		
DEPTH (FT)		
	RDCL	IDCL
ARSENIC	3.9	20.0
BARIUM	1,600	5,900
CADMIUM	7.5	77.0
CHROMIUM	38.0	120.0
LEAD	81.0	230.0
SELENIUM	5.2	53

Results reported in parts per million (ppm).  
 Results in blue are above IDEM RISC Residential Default Cleanup Levels (RDCLs).  
 Results in red are above IDEM RISC Industrial Default Cleanup Levels (IDCLs).



1426 West 29th Street  
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### LEGEND

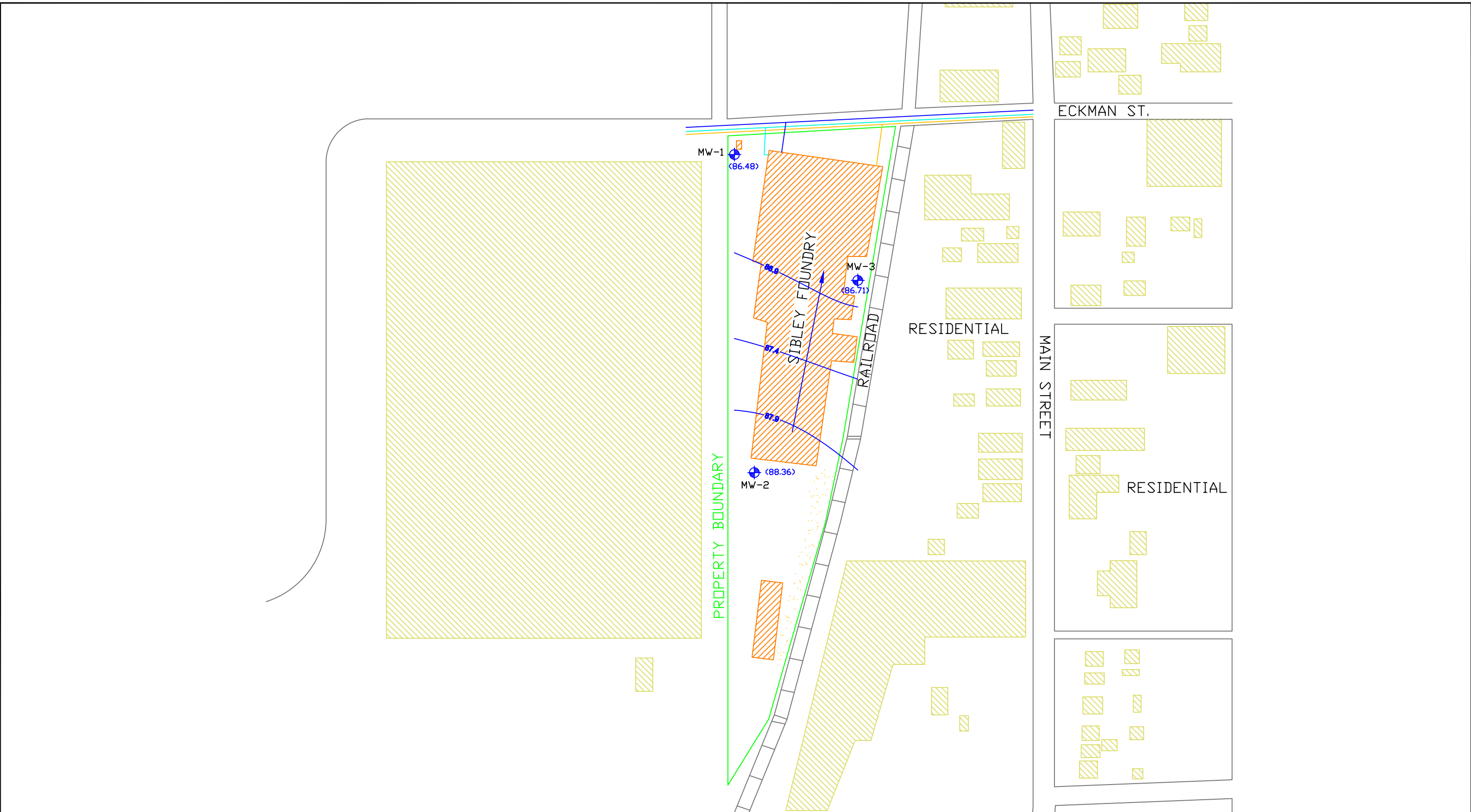
- GAS LINE
- SEWER LINE
- WATER LINE
- OFF SITE BUILDINGS
- ON SITE BUILDINGS

### SOIL ANALYTICAL RESULTS MAP (METALS DETECTED)

SIBLEY FOUNDRY  
 220 WEST ECKMAN STREET  
 SOUTH BEND, IN

PROJECT NUMBER = 3316

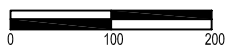
FIGURE 4



1426 West 29th Street  
 Indianapolis, IN 46208  
 317-347-9590



Scale In Feet



1" = 200'-0"

**LEGEND**

- GAS LINE
- SEWER LINE
- WATER LINE
- OFF SITE BUILDINGS
- ON SITE BUILDINGS
- MONITORING WELL
- GROUNDWATER CONTOUR
- GROUNDWATER CONTOUR (99)

POTENTIOMETRIC MAP 10/31/2007

SIBLEY FOUNDRY  
 220 WEST ECKMAN STREET  
 SOUTH BEND, IN

PROJECT NUMBER = 3316

FIGURE 5

MW-1		
10/31/07	Total	Dissolved
BARIUM	0.032	0.021
CHROMIUM	ND	ND
LEAD	0.013	ND
MERCURY	ND	ND

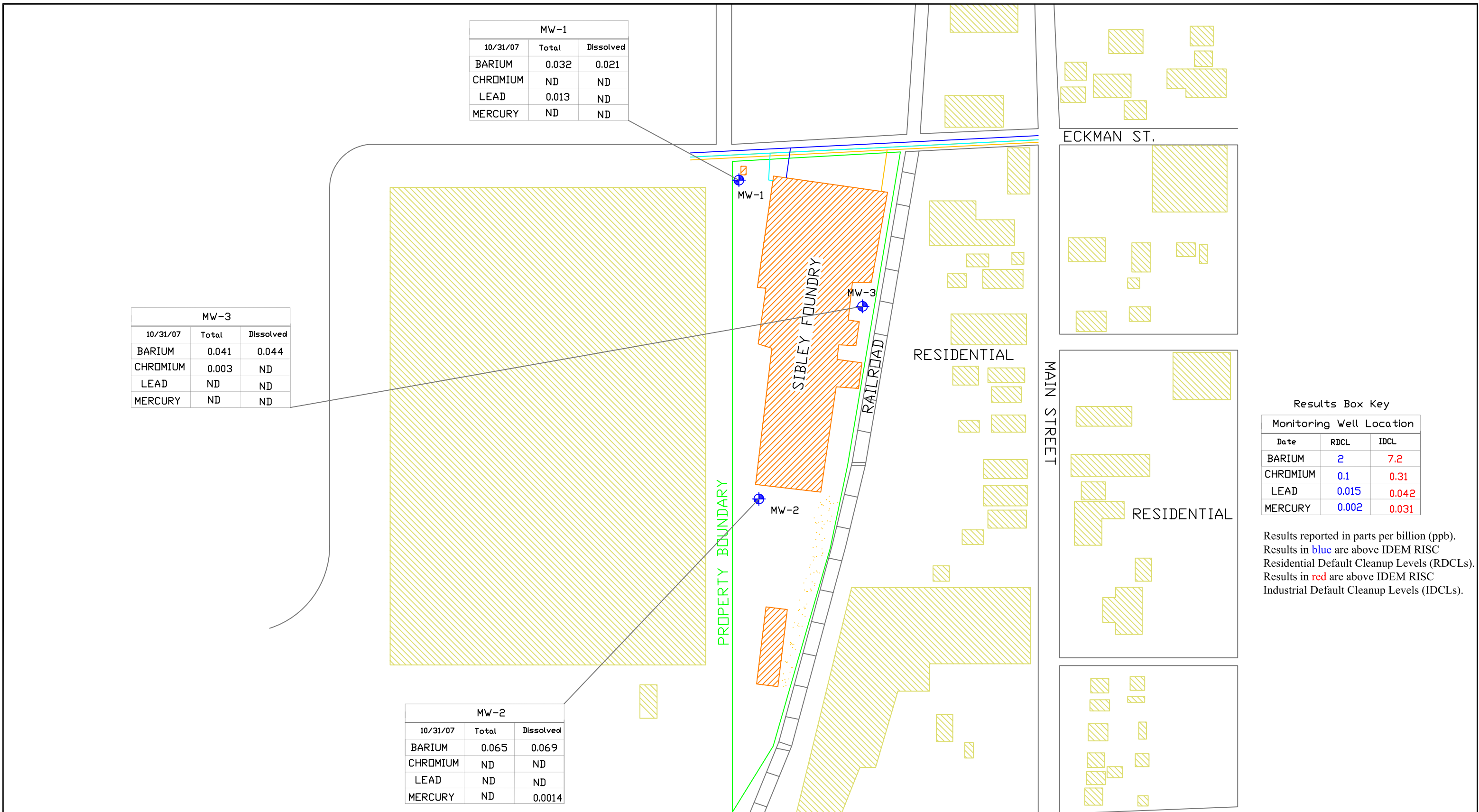
MW-3		
10/31/07	Total	Dissolved
BARIUM	0.041	0.044
CHROMIUM	0.003	ND
LEAD	ND	ND
MERCURY	ND	ND

MW-2		
10/31/07	Total	Dissolved
BARIUM	0.065	0.069
CHROMIUM	ND	ND
LEAD	ND	ND
MERCURY	ND	0.0014

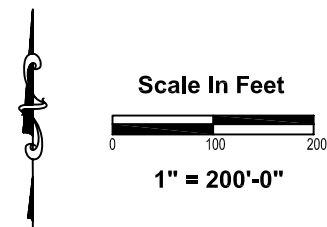
Results Box Key

Monitoring Well Location		
Date	RDCL	IDCL
BARIUM	2	7.2
CHROMIUM	0.1	0.31
LEAD	0.015	0.042
MERCURY	0.002	0.031

Results reported in parts per billion (ppb).  
 Results in blue are above IDEM RISC Residential Default Cleanup Levels (RDCLs).  
 Results in red are above IDEM RISC Industrial Default Cleanup Levels (IDCLs).



1426 West 29th Street  
 Indianapolis, IN 46208  
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### LEGEND

- GAS LINE
- SEWER LINE
- WATER LINE
- OFF SITE BUILDINGS
- ON SITE BUILDINGS
- MONITORING WELL

GROUNDWATER ANALYTICAL MAP (DETECTED CONSTITUENTS)

SIBLEY FOUNDRY  
 220 WEST ECKMAN STREET  
 SOUTH BEND, IN

PROJECT NUMBER = 3316

FIGURE 6

## **Tables**

Table 1 – VOC and SVOC Soil Analytical Results

Table 2 – Metals Soil Analytical Results

Table 3 – Groundwater Elevation Data

Table 3 – Metals Groundwater Analytical Results

IDEM Incident # 2004-11-003

**Table 1**

Soil Analytical Results  
 Volatile Organic Compounds (VOCs) and Semi-volatile Organic Compounds (SVOCs)  
 Sibley Foundry  
 220 W. Eckman St.  
 South Bend, Indiana

Sample Location	Date	Depth (feet)	2-Butanone	Methylene chloride	1,1,1 Trichloroethane	SVOCs
SB-1	9/23/2004	7.5-10	ND	0.022	0.009	ND
SB-2	9/23/2004	12.5-15	ND	ND	ND	ND
SB-3	5/31/2006	15-17.5	ND	ND	ND	ND
SB-4	5/31/2006	5-7.5	ND	ND	ND	ND
	11/5/2007	10-12.5	ND	ND	ND	ND
	11/5/2007	22.5-25	ND	0.027	ND	ND
SB-5	5/31/2006	2.5-5	ND	ND	ND	ND
	11/5/2007	12.5-15	ND	ND	ND	ND
	11/5/2007	22.5-25	ND	ND	ND	ND
SB-6	5/30/2006	15-17.5	ND	ND	ND	ND
SB-7	5/30/2006	10-12.5	ND	ND	ND	ND
SB-8	5/31/2006	2.5-5	ND	ND	ND	ND
	11/5/2007	10-12.5	0.014	ND	ND	ND
	11/5/2007	22.5-25	ND	ND	ND	ND
SB-9	5/31/2006	5-7.5	ND	ND	ND	ND
	11/5/2007	15-17.5	ND	ND	ND	ND
	11/5/2007	22.5-25	ND	ND	ND	ND
SB-10	5/31/2006	15-17.5	ND	ND	ND	ND
Duplicate	5/30/2006	10-12.5	ND	ND	ND	ND
Duplicate	11/5/2007	12.5-15	ND	ND	ND	ND
IDEM RISC Criteria	Residential	-	16	0.023	1.9	various
	Industrial	-	44	1.8	280.0	various

Results in parts per million (ppm)

Results in blue are above IDEM RISC Residential Cleanup Criteria.

Results in red are above IDEM RISC Industrial/Commercial Cleanup Criteria.

ND- Result is below method detection limits.

5/30/2006 Duplicate from SB-7 (10-12.5), 11/5/2007 duplicate from SB-4

**Table 2**  
 Soil Analytical Results  
 RCRA Metals  
 Sibley Foundry  
 220 W. Eckman Street  
 South Bend, Indiana

Sample Location	Date	Depth (feet)	Arsenic	Barium	Cadmium	Chromium *	Lead	Mercury	Selenium	Silver
SB-1	9/23/2004	7.5-10	1.0	23.0	<0.096	9.7	6.8	<0.037	<1.4	<0.48
SB-2	9/23/2004	12.5-15	1.2	4.4	<0.091	2.5	3.3	<0.036	<1.4	<0.45
SB-3	5/31/2006	15-17.5	<5.0	5.0	<0.50	10.0	<2.5	<0.044	<5.0	<0.50
SB-4	5/31/2006	5-7.5	<5.0	17.0	<0.50	7.0	5.9	<0.043	<5.0	<0.50
	11/5/2007	10-12.5	2.3	12.0	0.5	5.1	6.4	<0.043	<1.6	<0.52
	11/5/2007	22.5-25	1.4	4.5	0.2	4.4	2.5	<0.043	<1.5	<0.51
SB-5	5/31/2006	2.5-5	<5.0	12.0	<0.50	3.5	2.6	<0.042	<5.0	<0.50
	11/5/2007	12.5-15	2.1	14.0	0.6	8.0	6.0	<0.040	<1.5	<0.51
	11/5/2007	22.5-25	<0.52	3.3	0.1	1.9	0.8	<0.039	<1.6	<0.52
SB-6	5/30/2006	15-17.5	<5.0	10.0	<0.50	13.0	4.1	<0.045	<5.0	<0.50
SB-7	5/30/2006	10-12.5	<5.0	9.6	<0.50	7.1	12.0	<0.045	<5.0	<0.50
SB-8	5/31/2006	2.5-5	<5.0	30.0	<0.50	4.9	8.2	<0.044	<5.0	<0.50
	11/5/2007	10-12.5	2.6	17.0	<0.10	7.3	17.0	<0.044	<1.6	<0.52
	11/5/2007	22.5-25	2.3	4.7	0.3	4.5	2.7	<0.043	<1.6	<0.54
SB-9	5/31/2006	5-7.5	<5.0	36.0	<0.50	6.8	6.7	<0.045	<5.0	<0.50
	11/5/2007	15-17.5	2.3	22.0	0.7	21.0	5.9	<0.038	<1.5	<0.48
	11/5/2007	22.5-25	1.1	4.9	0.3	11.0	2.6	<0.045	14.0	<0.54
SB-10	5/31/2006	15-17.5	12.0	21.0	<0.50	15.0	11.0	<0.047	<5.0	<0.50
Duplicate	5/30/2006	10-12.5	<5.0	4.9	<0.50	4.4	4.9	0.045	<5.0	<0.50
	11/5/2007	12.5-15	1.9	13.0	1.0	6.5	5.2	<0.044	<1.5	<0.52
IDEM RISC Criteria	Residential		3.9	1,600.0	7.5	38.0	81.0	2.1	5.2	31.0
	Industrial		20.0	5,900.0	77.0	120.0	230.0	32.0	53.0	87.0

Results in parts per million (ppm)

Results in blue are above IDEM RISC Residential Cleanup Criteria.

Results in red are above IDEM RISC Industrial/Commercial Cleanup Criteria.

\* Total Chromium used in analysis, RISC Levels are from Hexavalent Chromium

5/30/2006 Duplicate from SB-7 (10-12.5), 11/5/2007 duplicate from SB-5 (12.5-15)

IDEM Incident # 2004-11-003

**Table 3**  
Groundwater Elevations  
Sibley Foundry  
220 W. Eckman St.  
South Bend, Indiana

Sample Location	Date	Depth to Water	TOC Elevation	Groundwater Elevation
<b>MW-1</b>	10/31/2007	13.05	99.53	86.48
<b>MW-2</b>	10/31/2007	14.23	102.59	88.36
<b>MW-3</b>	10/31/2007	13.92	100.63	86.71

All measurements in feet.

TOC- Top of Casing

**Table 4**  
 Groundwater Analytical Results  
 RCRA Metals  
 Sibley Foundry  
 220 W. Eckman Street  
 South Bend, Indiana

Sample Location	Date	Total/Dissolved	Arsenic	Barium	Cadmium	Chromium *	Lead	Mercury	Selenium	Silver
SB-3	5/31/2006	Total	<0.10	0.12	<0.10	0.012	<0.050	<0.0002	<0.10	<0.010
SB-4	5/31/2006	Total	<0.10	0.17	<0.10	<0.010	<0.050	0.00044	<0.10	<0.010
SB-5	5/31/2006	Total	<0.10	0.083	<0.10	<0.010	<0.050	0.00023	<0.10	<0.010
	Duplicate	Total	<0.10	0.11	<0.10	0.012	<0.050	<0.0002	<0.10	<0.010
SB-6	5/30/2006	Total	<0.10	0.15	<0.10	0.013	<0.050	<0.0002	<0.10	<0.010
SB-7	5/30/2006	Total	<0.10	0.13	<0.10	<0.10	<0.050	<0.0002	<0.10	<0.010
SB-8	5/31/2006	Total	<0.10	0.14	<0.10	0.023	<0.050	0.00021	<0.10	<0.010
SB-10	5/31/2006	Total	<0.10	0.087	<0.10	<0.10	<0.050	<0.0002	<0.10	<0.010
SB-1/MW-1	9/23/2004	Total	0.037	0.17	<0.002	0.17	0.064	<0.0002	<0.03	<0.010
	9/18/2006	Total	0.012	0.19	<0.002	0.014	0.044	0.00046	<0.03	<0.010
		Total-Dup	0.027	0.19	<0.002	0.018	0.058	0.00027	<0.03	<0.010
	11/21/2006	Dissolved	NS	NS	NS	NS	<0.0075	NS	NS	NS
	3/1/2007	Total	<0.01	<0.1	<0.005	<0.01	0.01	<0.0002	<0.01	<0.05
		Total-Dup	<0.01	<0.1	<0.005	<0.01	<0.01	<0.0002	<0.01	<0.05
6/26/2007	Dissolved	<0.01	<0.1	<0.005	<0.01	<0.01	<0.0002	<0.01	<0.05	
	Total	<0.01	0.022	<0.002	<0.003	<0.0075	<0.0002	<0.03	<0.01	
10/31/2007	Dissolved	<0.01	0.023	<0.002	<0.003	<0.0075	<0.0002	<0.03	<0.01	
	Total	<0.01	0.032	<0.002	<0.003	0.013	<0.0002	<0.03	<0.01	
10/31/2007	Total-Dup	<0.01	0.030	<0.002	<0.003	<0.0075	<0.0002	<0.03	<0.01	
	Dissolved	<0.01	0.021	<0.002	<0.003	<0.0075	<0.0002	<0.03	<0.01	
SB-2/MW-2	9/23/2004	Total	0.011	0.085	<0.002	0.036	0.024	<0.0002	<0.03	<0.010
	9/18/2006	Total	0.048	0.18	<0.002	0.012	0.077	0.00093	<0.03	<0.010
	11/21/2006	Total	NS	NS	NS	NS	<0.0075	NS	NS	NS
		Dissolved	NS	NS	NS	NS	<0.0075	NS	NS	NS
	3/1/2007	Total	<0.01	<0.1	<0.005	<0.01	<0.01	<0.0002	<0.01	<0.05
		Dissolved	<0.01	<0.1	<0.005	<0.01	<0.01	<0.0002	<0.01	<0.05
6/26/2007	Total	<0.01	0.061	<0.002	0.0087	<0.0075	<0.0002	0.03	<0.01	
	Total-Dup	<0.01	0.061	<0.002	0.011	<0.0075	<0.0002	0.042	<0.01	
	Dissolved	<0.01	0.059	<0.002	0.01	<0.0075	<0.0002	<0.03	<0.01	
10/31/2007	Dissolved-Dup	<0.01	0.06	<0.002	0.0096	<0.0075	<0.0002	<0.03	<0.01	
	Total	<0.01	0.065	<0.002	<0.003	<0.0075	<0.0002	<0.03	<0.01	
10/31/2007	Dissolved	<0.01	0.069	<0.002	<0.003	<0.0075	0.0014	<0.03	<0.01	
	Dissolved	<0.01	0.069	<0.002	<0.003	<0.0075	0.0014	<0.03	<0.01	
SB-9/MW-3	9/23/2004	Total	<0.10	0.150	<0.10	0.023	<0.050	0.00038	<0.10	<0.010
	9/18/2006	Total	0.016	0.19	<0.002	0.01	0.043	<0.0002	<0.03	<0.010
	11/21/2006	Total	NS	NS	NS	NS	<0.0075	NS	NS	NS
		Dissolved	NS	NS	NS	NS	<0.0075	NS	NS	NS
	3/1/2007	Total	<0.01	<0.1	<0.005	<0.01	<0.01	<0.0002	<0.01	<0.05
		Dissolved	<0.01	<0.1	<0.005	<0.01	<0.01	<0.0002	<0.01	<0.05
6/26/2007	Total	0.011	0.043	<0.002	<0.003	<0.0075	<0.0002	<0.03	<0.01	
	Dissolved	<0.01	0.043	<0.002	<0.003	<0.0075	<0.0002	<0.03	<0.01	
10/31/2007	Total	<0.01	0.041	<0.002	0.003	<0.0075	<0.0002	<0.03	<0.01	
	Dissolved	<0.01	0.044	<0.002	<0.003	<0.0075	<0.0002	<0.03	<0.01	
IDEM RISC Criteria	Residential		0.050	2.000	0.005	0.100	0.015	0.002	0.050	0.180
	Industrial		0.050	7.200	0.051	0.310	0.042	0.031	0.510	0.510

Results in blue are above IDEM RISC Residential Cleanup Criteria.  
 Results in red are above IDEM RISC Industrial/Commercial Cleanup Criteria.  
 Results in parts per million (ppm).  
 \* Results analyzed for Total Chromium  
 NS- Not sampled.



## **Appendices**

Appendix A – IDEM FSI Request Letter

Appendix B – Soil Boring Logs

Appendix C - Laboratory Analytical Results & Chain of Custody Documentation

## **Appendix A**

IDEM FSI Request Letter



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

Mitchell E. Daniels, Jr.  
Governor

Thomas W. Easterly  
Commissioner

100 North Senate Avenue  
Indianapolis, Indiana 46204  
(317) 232-8603  
(800) 451-6027  
[www.IN.gov/idem](http://www.IN.gov/idem)

May 3, 2007

**CERTIFIED MAIL 7005 1160 0001 2624 3574**

Mr. William Voll Jr., President  
Sibley Machine & Foundry Company  
206 East Tutt Street  
South Bend, IN 46601

Re: **Further Site Investigation Request**  
Sibley Foundry  
220 West Eckman Street  
South Bend, St. Joseph County  
State Cleanup #2004-11-003

Dear Mr. Voll:

The Indiana Department of Environmental Management (IDEM) has reviewed the file pertaining to a release of hazardous substances for the former Sibley Foundry located at 220 West Eckman Street. Site investigation was requested by IDEM following confirmation of groundwater contamination during limited subsurface investigation activities. The document *RISC-Based Initial Site Characterization Report* ("Report"), submitted by SESCO Group and dated February 27, 2007, was reviewed.

As a result of our review, IDEM has determined that you must conduct a Further Site Investigation (FSI) in order to fully delineate the nature and extent of contamination in accordance with Indiana Code (IC) 13-25-4. Guidance on how to characterize the nature and extent of the contamination can be found in IDEM's *Risk Integrated System of Closure (RISC) Technical Resource Guidance Document*, February 2001. The RISC guidance documents are available online at: <http://www.in.gov/idem/programs/land/risc/index.html>.

Listed below are General and Specific Comments which must be addressed in the FSI.

**General Comments**

During site investigation activities, 10 soil borings were advanced and three (3) permanent groundwater monitoring wells installed. Soil and groundwater samples were collected and analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and the Resource Conservation and Recovery Act (RCRA) metals. Soil analytical results indicated one sample contained arsenic above the RISC

residential default closure level. Total lead levels in groundwater samples were above the RISC industrial default closure levels, however subsequent groundwater samples that were collected and filtered indicated lead levels were below method detection limits. Quarterly groundwater monitoring should commence, and further soil investigation is warranted.

### Specific Comments

1. The foundry sand must be characterized and properly disposed. Specifically, the foundry sand pile should be identified to determine whether it is just foundry sand or a combination of baghouse dust, grinding dust, refractory, etc. If the waste is indeed foundry sand, it should be characterized in accordance with 329 Indiana Administrative Code (IAC) 10-9-4 and disposed properly. Please contact the IDEM Solid Waste Compliance Section regarding waste characterization and disposal.
2. Additional soil investigation is warranted. Surface soil contamination near the foundry sand pile has not been defined. Surface soil samples must be collected from around and beneath the foundry sand pile. Additional soil borings also must be advanced to vertically delineate soil contamination. Soil borings SB-4, SB-5, SB-8 and SB-9 did not include samples collected from the bottom of the boring. Soil borings must be advanced in these areas, and samples collected from the highest field screened interval and the bottom of the boring, in order to vertically delineate soil contamination.
3. The Report indicates an underground storage tank (UST) containing heating oil is present at the site. The location, capacity, and depth of this UST are not specified in the Report. This information must be submitted to IDEM. The UST and any associated piping must be located on a properly scaled map and submitted to IDEM for review.
4. The contractor has recommended that the soil and groundwater Chemicals of Concern (COCs) include only the RCRA metals. Due to the presence of the heating oil UST, the COCs should include the RCRA metals as well as total petroleum hydrocarbons (TPH) extended range organics (ERO), benzene, toluene, ethylbenzene, and xylenes (BTEX), and carcinogenic polynuclear aromatic hydrocarbons (cPAHs).
5. The contractor has suggested No Further Action (NFA) status will be requested following four quarters of groundwater monitoring. In accordance with the RISC technical guide Chapter 6, monitoring well data must verify that contaminant concentrations are below closure levels for at least eight (8) consecutive quarters before NFA status will be granted. Due to suspected elevated lead levels in suspended sediments, IDEM recommends low-flow groundwater sampling techniques. In order to be consistent with IDEM's quarterly reporting schedule, IDEM requests that the contractor submit quarterly groundwater monitoring reports four times a year, referenced as 1<sup>st</sup> quarter, 2<sup>nd</sup> quarter, and so on, in accordance with the following schedule:
  - January 1 – March 31, due April 30<sup>th</sup>
  - April 1 – June 30, due July 31<sup>st</sup>
  - July 1 – September 30, due October 31<sup>st</sup>
  - October 1 – December 31, due January 31<sup>st</sup> of the following calendar year

6. When defining the nature and extent of contamination and for closure activities, Level IV quality assurance/ quality control (QA/QC) documentation must be submitted. The documentation requirements for analytical data, including field QA/QC measures and laboratory QA/QC results, can be found on the IDEM website at:  
[http://www.in.gov/idem/programs/land/risc/tech\\_guide/pdfs/riscapp2.pdf](http://www.in.gov/idem/programs/land/risc/tech_guide/pdfs/riscapp2.pdf).

### **Conclusions**

Additional soil investigation is warranted, and quarterly groundwater monitoring should commence. The foundry sand pile must be characterized and properly disposed.

Please submit three (3) copies of the FSI within 60 days from receipt of this letter to the following address:

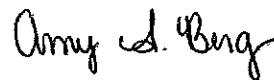
66-30  
Indiana Department of Environmental Management  
Office of Land Quality  
State Cleanup Section  
100 N. Senate Ave., IGCN, Room 1101  
Indianapolis, IN 46204-2251

IDEM requests that the FSI Report follow the general report outline format as provided in Appendix 1 of the IDEM's *RISC User's Guide*. Failure to provide this information in a timely and complete manner may subject you to civil penalties, pursuant to IC 13-30-4-1.

Be advised that under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the Indiana's Hazardous Substances Response Trust Fund (HSRTF) law, an owner, operator or responsible person is liable for the costs of response or remediation incurred by the State (IC 13-25-4-8).

If you have any questions, please contact me at 317/234-4382 or toll free from within Indiana at 800/451-6027.

Sincerely,



Amy S. Berg, Project Manager  
State Cleanup Section  
Office of Land Quality


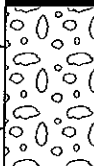

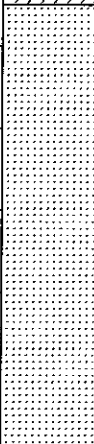

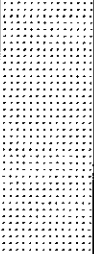

cc: State Cleanup File #2004-11-003  
Carla Gill – SESCO Group  
Michael Nelson, Esq. – Resolution Law Group

## **Appendix B**

### Soil Boring Logs

**SB-4r**

Drill Rig: Geoprobe	Date Drilled: 11-5-07	Logged By:
Boring Dia: 2 Inches	Boring #: SB-4r	T. Pippin

Sample	Percent Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
						Asphalt
	90		40.3			Gravel fill (FILL)
	100		46.6			Sandy clay, trace gravel, medium brown, firm, damp (CL)
	0		NA	5		Fine to medium sand, trace pebbles, increase gravel @ 10.5-11.5', light brown, slightly moist (SP)
	100		45.1			
	100		70.1	10		
	100		13.3			

Completion Notes:  
 10-12.5' and 22.5-25'  
 Submitted for laboratory analysis  
 Duplicate sample from 10-12.5'  
 MS/MSD sample from 22.5-25'  
 Groundwater @ 21'

Site:  
 Sibley Foundry  
 220 W. Eckman St.  
 South Bend, Indiana

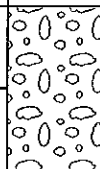
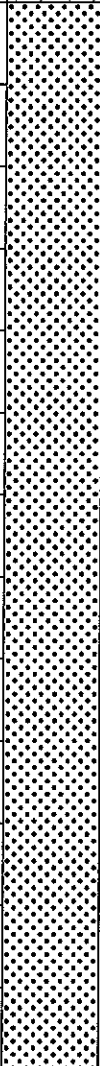
		<b>SB-4r</b>			
Drill Rig:		Geoprobe	Date Drilled:	11-5-07	Logged By:
Boring Dia:		2 Inches	Boring #:	SB-4r	T. Pippin

Sample	Percent Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
	80		20.9			
	100		22.9			Medium to coarse sand, light brown, moist (SW)
	80		13.1	20		Medium sand, light brown, wet (SW)
	100		12.4			
				25		

<b>Completion Notes:</b> 10-12.5' and 22.5-25' Submitted for laboratory analysis Duplicate sample from 10-12.5' MS/MSD sample from 22.5-25' Groundwater @ 21'	<b>Site:</b> Sibley Foundry 220 W. Eckman St. South Bend, Indiana
	Project No.: 3316      Page 2



		<b>SB-5r</b>			
Drill Rig:		Geoprobe	Date Drilled:	11-5-07	Logged By:
Boring Dia:		2 Inches	Boring #:	SB-5r	T. Pippin

Sample	Percent Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
	80		12.7			Topsoil & gravel
	100		10.6			Fine to medium sand, trace gravel, orangey brown, moist, wet @ 21' (SW)
	0		NA	5		
	100		19.6			
	0		NA	10		
	80		19.8			

<b>Completion Notes:</b> 12.5-15' and 22.5-25' Submitted for laboratory analysis Groundwater @ 21'	<b>Site:</b> Sibley Foundry 220 W. Eckman St. South Bend, Indiana
	Project No.: 3316      Page 1

		<b>SB-5r</b>			
		Drill Rig: Geoprobe	Date Drilled: 11-5-07	Logged By:	
		Boring Dia: 2 Inches	Boring #: SB-5r	T. Pippin	

Sample	Percent Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
	0		NA		[Dotted Pattern]	
	100		18.2	20		
	80		8.7			
	100		13.5	25		

<b>Completion Notes:</b> 12.5-15' and 22.5-25' Submitted for laboratory analysis Groundwater @ 21'	<b>Site:</b> Sibley Foundry 220 W. Eckman St. South Bend, Indiana
	Project No.: 3316      Page 2

			<b>SB-8r</b>			
		Drill Rig:	Geoprobe	Date Drilled:	11-5-07	Logged By:
		Boring Dia:	2 Inches	Boring #:	SB-8r	T. Pippin
Sample	Percent Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
						Asphalt
	20		10.8			Gravel fill (FILL)
	100		14.0			Fine sand, blackish brown, damp (SP)
	40		35.4	5		
	100		15.8			Clayey sand, black, moist (SC)
	40		57.4	10		Sandy clay, trace gravel, grey, soft/firm; moist (CL)
	100		47.8			Medium sand, trace gravel, black, moist (SW)
						Medium to coarse sand, trace gravel, light brown, moist (SW)

**Completion Notes:**

10-12.5' and 22.5-25'  
 Submitted for laboratory analysis  
 Groundwater @ 18'

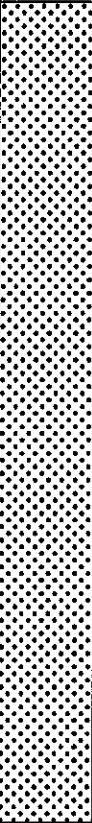
**Site:**

Sibley Foundry  
 220 W. Eckman St.  
 South Bend, Indiana

Project No.: 3316

Page 1

		<b>SB-8r</b>			
Drill Rig:		Geoprobe	Date Drilled:	11-5-07	Logged By:
Boring Dia:		2 Inches	Boring #:	SB-8r	T. Pippin

Sample	Percent Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
	100		37.8			Medium sand, light brown, moist then wet @ 18' (SW)
	100		29.6			
	80		24.9	20		
	100		20.4	25		

<b>Completion Notes:</b> 10-12.5' and 22.5-25' Submitted for laboratory analysis Groundwater @ 18'	<b>Site:</b> Sibley Foundry 220 W. Eckman St. South Bend, Indiana
	Project No.: 3316      Page 2

			<b>SB-9r</b>				
			Drill Rig:	Geoprobe	Date Drilled:	11-5-07	Logged By:
			Boring Dia:	2 Inches	Boring #:	SB-9r	T. Pippin
Sample	Percent Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description	
	20		6.4		Asphalt	Asphalt	
					Gravel fill (FILL)	Gravel fill (FILL)	
					Medium sand, trace gravel, orangey brown, moist (SP)	Medium sand, trace gravel, orangey brown, moist (SP)	
					Clayey sand, dark gray, moist (SC)	Clayey sand, dark gray, moist (SC)	
	100		20.5		Fine to medium sand, orangey brown, moist (SW)	Fine to medium sand, orangey brown, moist (SW)	
				5			
	0		NA				
					Medium to coarse sand, trace gravel, gray/brown, moist (SW)	Medium to coarse sand, trace gravel, gray/brown, moist (SW)	
	100		22.3				
				10			
	20		79.7				
					Fine to Medium sand, light brown, moist (SW)	Fine to Medium sand, light brown, moist (SW)	
	100		22.2				

Completion Notes:  
 15-17.5' and 22.5-25'  
 Submitted for laboratory analysis  
 Groundwater @ 19'

Site:  
 Sibley Foundry  
 220 W. Eckman St.  
 South Bend, Indiana

		<b>SB-9r</b>			
Drill Rig:		Geoprobe	Date Drilled:	11-5-07	Logged By:
Boring Dia:		2 Inches	Boring #:	SB-9r	T. Pippin

Sample	Percent Recovery	Completion	PID (ppm)	Depth Feet	Lithology	Description
	90		112			
	100		39.3			
	70		10.3	20		Medium sand, light brown, wet (SW)
	100		9.7	25		

<p>Completion Notes:</p> <p>15-17.5' and 22.5-25' Submitted for laboratory analysis Groundwater @ 19'</p>	<p>Site:</p> <p>Sibley Foundry 220 W. Eckman St. South Bend, Indiana</p>
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## **Appendix C**

Laboratory Analytical Results & Chain of Custody Documentation



November 05, 2007

Carla Gill  
SESCO Group, Inc.  
1426 West 29th Street  
Indianapolis, IN 46208

Work Order No.: ME0711054

RE: Sibley Foundry / South Bend, IN  
Dear Carla Gill:

Microbac Laboratories, Inc. received 6 samples on 11/1/2007 4:57:00 PM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Deborah Griffiths", written over the printed name.

Deborah Griffiths  
Senior Project Manager

Enclosures





**WORK ORDER SAMPLE SUMMARY**

**Date:** *Monday, November 05, 2007*

**CLIENT:** SESCO Group, Inc.  
**Project:** Sibley Foundry / South Bend, IN  
**Lab Order:** ME0711054

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
ME0711054-01A	MW-1		10/31/2007 10:30:00 AM	11/1/2007
ME0711054-02A	MW-1 DUP		10/31/2007 10:30:00 AM	11/1/2007
ME0711054-03A	MW-1		10/31/2007 10:30:00 AM	11/1/2007
ME0711054-04A	MW-2		10/31/2007 1:15:00 PM	11/1/2007
ME0711054-04B	MW-2		10/31/2007 1:15:00 PM	11/1/2007
ME0711054-05A	MW-3		10/31/2007 2:30:00 PM	11/1/2007
ME0711054-06A	MW-3		10/31/2007 2:30:00 PM	11/1/2007



**ANALYTICAL RESULTS**

**Date:** Monday, November 05, 2007

**Client:** SESCO Group, Inc.  
**Client Project:** Sibley Foundry / South Bend, IN  
**Client Sample ID:** MW-1  
**Sample Description:**  
**Sample Matrix:** Aqueous

**Work Order / ID:** ME0711054-01  
**Collection Date:** 10/31/07 10:30  
**Date Received:** 11/01/07 16:57

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **11/03/07 08:25** Analyst: **AVC**

Arsenic	A	<b>ND</b>	0.010		mg/L	1	11/03/07 15:08
Barium	A	<b>0.032</b>	0.0020		mg/L	1	11/03/07 15:08
Cadmium	A	<b>ND</b>	0.0020		mg/L	1	11/03/07 15:08
Chromium	A	<b>ND</b>	0.0030		mg/L	1	11/03/07 15:08
Lead	A	<b>0.013</b>	0.0075		mg/L	1	11/03/07 15:08
Selenium	A	<b>ND</b>	0.030		mg/L	1	11/03/07 15:08
Silver	A	<b>ND</b>	0.010		mg/L	1	11/03/07 15:08

**TOTAL METALS** Method: **SW7470A** Prep Date/Time: **11/03/07 08:35** Analyst: **AVC**

Mercury	A	<b>ND</b>	0.00020		mg/L	1	11/03/07 11:33
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**ANALYTICAL RESULTS**

**Date:** Monday, November 05, 2007

Client: SESCO Group, Inc.  
 Client Project: Sibley Foundry / South Bend, IN  
 Client Sample ID: MW-1 DUP  
 Sample Description:  
 Sample Matrix: Aqueous

Work Order / ID: ME0711054-02  
 Collection Date: 10/31/07 10:30  
 Date Received: 11/01/07 16:57

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **11/03/07 08:25** Analyst: **AVC**

Arsenic	A	<b>ND</b>	0.010		mg/L	1	11/03/07 15:13
Barium	A	<b>0.030</b>	0.0020		mg/L	1	11/03/07 15:13
Cadmium	A	<b>ND</b>	0.0020		mg/L	1	11/03/07 15:13
Chromium	A	<b>ND</b>	0.0030		mg/L	1	11/03/07 15:13
Lead	A	<b>ND</b>	0.0075		mg/L	1	11/03/07 15:13
Selenium	A	<b>ND</b>	0.030		mg/L	1	11/03/07 15:13
Silver	A	<b>ND</b>	0.010		mg/L	1	11/03/07 15:13

**TOTAL METALS** Method: **SW7470A** Prep Date/Time: **11/03/07 08:35** Analyst: **AVC**

Mercury	A	<b>ND</b>	0.00020		mg/L	1	11/03/07 11:34
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**ANALYTICAL RESULTS**

**Date:** Monday, November 05, 2007

**Client:** SESCO Group, Inc.  
**Client Project:** Sibley Foundry / South Bend, IN  
**Client Sample ID:** MW-1  
**Sample Description:**  
**Sample Matrix:** Aqueous

**Work Order / ID:** ME0711054-03  
**Collection Date:** 10/31/07 10:30  
**Date Received:** 11/01/07 16:57

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**DISSOLVED METALS** Method: **SW6010B** Prep Date/Time: **11/05/07 07:25** Analyst: **AVC**

Arsenic	A	<b>ND</b>	0.010		mg/L	1	11/05/07 11:49
Barium	A	<b>0.021</b>	0.0020		mg/L	1	11/05/07 11:49
Cadmium	A	<b>ND</b>	0.0020		mg/L	1	11/05/07 11:49
Chromium	A	<b>ND</b>	0.0030		mg/L	1	11/05/07 11:49
Lead	A	<b>ND</b>	0.0075		mg/L	1	11/05/07 11:49
Selenium	A	<b>ND</b>	0.030		mg/L	1	11/05/07 11:49
Silver	A	<b>ND</b>	0.010		mg/L	1	11/05/07 11:49

**DISSOLVED METALS** Method: **SW7470A** Prep Date/Time: **11/05/07 07:35** Analyst: **SAA**

Mercury	A	<b>ND</b>	0.00020		mg/L	1	11/05/07 14:13
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**ANALYTICAL RESULTS**

**Date:** Monday, November 05, 2007

**Client:** SESCO Group, Inc.  
**Client Project:** Sibley Foundry / South Bend, IN  
**Client Sample ID:** MW-2  
**Sample Description:**  
**Sample Matrix:** Aqueous

**Work Order / ID:** ME0711054-04  
**Collection Date:** 10/31/07 13:15  
**Date Received:** 11/01/07 16:57

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**DISSOLVED METALS** Method: **SW6010B** Prep Date/Time: **11/05/07 07:25** Analyst: **AVC**

Arsenic	A	<b>ND</b>	0.010		mg/L	1	11/05/07 11:54
Barium	A	<b>0.069</b>	0.0020		mg/L	1	11/05/07 11:54
Cadmium	A	<b>ND</b>	0.0020		mg/L	1	11/05/07 11:54
Chromium	A	<b>ND</b>	0.0030		mg/L	1	11/05/07 11:54
Lead	A	<b>ND</b>	0.0075		mg/L	1	11/05/07 11:54
Selenium	A	<b>ND</b>	0.030		mg/L	1	11/05/07 11:54
Silver	A	<b>ND</b>	0.010		mg/L	1	11/05/07 11:54

**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **11/03/07 08:25** Analyst: **AVC**

Arsenic	A	<b>ND</b>	0.010		mg/L	1	11/03/07 15:19
Barium	A	<b>0.065</b>	0.0020		mg/L	1	11/03/07 15:19
Cadmium	A	<b>ND</b>	0.0020		mg/L	1	11/03/07 15:19
Chromium	A	<b>ND</b>	0.0030		mg/L	1	11/03/07 15:19
Lead	A	<b>ND</b>	0.0075		mg/L	1	11/03/07 15:19
Selenium	A	<b>ND</b>	0.030		mg/L	1	11/03/07 15:19
Silver	A	<b>ND</b>	0.010		mg/L	1	11/03/07 15:19

**DISSOLVED METALS** Method: **SW7470A** Prep Date/Time: **11/05/07 07:35** Analyst: **SAA**

Mercury	A	<b>0.0014</b>	0.00020		mg/L	1	11/05/07 14:20
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**TOTAL METALS** Method: **SW7470A** Prep Date/Time: **11/03/07 08:35** Analyst: **AVC**

Mercury	A	<b>ND</b>	0.00020		mg/L	1	11/03/07 11:35
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**ANALYTICAL RESULTS**

**Date:** Monday, November 05, 2007

**Client:** SESCO Group, Inc.  
**Client Project:** Sibley Foundry / South Bend, IN  
**Client Sample ID:** MW-3  
**Sample Description:**  
**Sample Matrix:** Aqueous

**Work Order / ID:** ME0711054-05  
**Collection Date:** 10/31/07 14:30  
**Date Received:** 11/01/07 16:57

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **11/03/07 08:25** Analyst: **AVC**

Arsenic	A	<b>ND</b>	0.010		mg/L	1	11/03/07 15:24
Barium	A	<b>0.041</b>	0.0020		mg/L	1	11/03/07 15:24
Cadmium	A	<b>ND</b>	0.0020		mg/L	1	11/03/07 15:24
Chromium	A	<b>0.0030</b>	0.0030		mg/L	1	11/03/07 15:24
Lead	A	<b>ND</b>	0.0075		mg/L	1	11/03/07 15:24
Selenium	A	<b>ND</b>	0.030		mg/L	1	11/03/07 15:24
Silver	A	<b>ND</b>	0.010		mg/L	1	11/03/07 15:24

**TOTAL METALS** Method: **SW7470A** Prep Date/Time: **11/03/07 08:35** Analyst: **AVC**

Mercury	A	<b>ND</b>	0.00020		mg/L	1	11/03/07 11:37
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**ANALYTICAL RESULTS**

**Date:** Monday, November 05, 2007

**Client:** SESCO Group, Inc.  
**Client Project:** Sibley Foundry / South Bend, IN  
**Client Sample ID:** MW-3  
**Sample Description:**  
**Sample Matrix:** Aqueous

**Work Order / ID:** ME0711054-06  
**Collection Date:** 10/31/07 14:30  
**Date Received:** 11/01/07 16:57

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**DISSOLVED METALS** Method: **SW6010B** Prep Date/Time: **11/05/07 07:25** Analyst: **AVC**

Arsenic	A	<b>ND</b>	0.010		mg/L	1	11/05/07 12:00
Barium	A	<b>0.044</b>	0.0020		mg/L	1	11/05/07 12:00
Cadmium	A	<b>ND</b>	0.0020		mg/L	1	11/05/07 12:00
Chromium	A	<b>ND</b>	0.0030		mg/L	1	11/05/07 12:00
Lead	A	<b>ND</b>	0.0075		mg/L	1	11/05/07 12:00
Selenium	A	<b>ND</b>	0.030		mg/L	1	11/05/07 12:00
Silver	A	<b>ND</b>	0.010		mg/L	1	11/05/07 12:00

**DISSOLVED METALS** Method: **SW7470A** Prep Date/Time: **11/05/07 07:35** Analyst: **SAA**

Mercury	A	<b>ND</b>	0.00020		mg/L	1	11/05/07 14:22
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**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

Table with 4 columns listing abbreviations and their meanings: NA = Not Analyzed, mg/L = Milligrams per Liter (ppm), mg/Kg = Milligrams per Kilogram (ppm), U = Undetected, J = Analyte concentration detected between RL and MDL (Metals / Organics), B = Detected in the associated Method Blank at a concentration above the routine PQL/RL, b = Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL, D = Surrogate recoveries are not calculated due to sample dilution, ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if listed), E = Value above quantitation range, H = Analyte was prepared and/or analyzed outside of the analytical method holding time, I = Matrix Interference, R = RPD outside accepted recovery limits, S = Spike recovery outside recovery limits, Surr = Surrogate, DF = Dilution Factor, RL = Reporting Limit, ST = Sample Type, MDL = Method Detection Limit.

**SAMPLE TYPES**

Table with 2 columns: A = Analyte, I = Internal Standard, S = Surrogate, T = Tentatively Identified Compound (TIC, concentration estimated).

**QC SAMPLE IDENTIFICATIONS**

Table with 3 columns listing QC sample types: MBLK = Method Blank, DUP = Method Duplicate, LCS = Laboratory Control Sample, MS = Matrix Spike, ICB = Initial Calibration Blank, ICV = Initial Calibration Verification, PDS = Post Digestion Spike, ICSA = Interference Check Standard "A", ICSAB = Interference Check Standard "AB", LCSD = Laboratory Control Sample Duplicate, MSD = Matrix Spike Duplicate, CCB = Continuing Calibration Blank, CCV = Continuing Calibration Verification, SD = Serial Dilution, OPR = Ongoing Precision and Recovery Standard.

**CERTIFICATIONS**

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

Table listing Microbac locations and service centers: Baltimore Division - Baltimore, MD; Camp Hill Division - Camp Hill, PA; Camp Hill Division (SC) - Pittston, PA; Chicagoland Division - Merrillville, IN; Chicagoland Division (SC) - Indianapolis, IN; Corona Division - Corona, CA; Erie Division - Erie, PA; Fayetteville Division - Fayetteville, NC; Hauser Division - Boulder, CO; Kentucky Division - Louisville, KY; Kentucky Division (Sat) - Evansville, IN; Kentucky Division (Sat) - Lexington, KY; Kentucky Division (Sat) - Paducah, KY; Knoxville Division - Maryville, TN; Massachusetts Division - Marlborough, MA; Microbac Corporate Office - Wexford, PA; Microbac NY - Cortland Office - Cortland, NY; Microbac NY - Waverly Office - Waverly, NY; New Castle Division - New Castle, PA; Pittsburgh Division - Warrendale, PA; Richmond Division - Richmond, VA; South Carolina Division - New Ellenton, SC; South Jersey Division - Turnersville, NJ; Southern Headquarters - Poquoson, VA; Southern Testing Division - Wilson, NC; Southern Testing Division (Sat) - Greensboro, NC; Venice Division - Venice, FL.





# COOLER INSPECTION

Date: Monday, November 05, 2007

Client Name SESCO Group, Inc.  
 Work Order Number ME0711054  
 Checklist completed by SPM | 11/1/2007 5:42:27 PM

Date / Time Received: 11/1/2007 4:57:00 PM  
 Received by: SPM  
 Reviewed by DDG | 11/2/2007 12:52:10 PM

Carrier name: Microbac

- After-Hour Arrival? Yes  No
- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody included sufficient client identification? Yes  No
- Chain of custody included sufficient sample collector information? Yes  No
- Chain of custody included a sample description? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Chain of custody identified the appropriate matrix? Yes  No
- Chain of custody included date of collection? Yes  No
- Chain of custody included time of collection? Yes  No
- Chain of custody identified the appropriate number of containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Chain of custody identified the appropriate preservatives (if preserved)? Yes  No
- Samples properly preserved? Yes  No

If No, adjusted by? \_\_\_\_\_ Date/Time \_\_\_\_\_

- Chain of custody included the requested analyses? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Samples received on ice? Yes  No

Container/Temp Blank temperatures Cooler Temp  
 1 2 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted  Yes  No

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments:

Sample ID	Client Sample ID	Comments
ME0711054-01A	MW-1	
ME0711054-02A	MW-1 DUP	
ME0711054-03A	MW-1	Needs to be FILTERED
ME0711054-04A	MW-2	
ME0711054-04B	MW-2	Needs to be FILTERED
ME0711054-05A	MW-3	
ME0711054-06A	MW-3	Needs to be FILTERED



Samples Submitted to:  
 250 West 84th Drive  
 Merrillville, IN 46410  
 Tel: 219-769-8378  
 Fax: 219-769-1664

5713 West 85th Street  
 Indianapolis, IN 46278  
 Tel: 317-872-1375  
 Fax: 317-872-1379

Chain of Custody Record  
 Number 70752

Instructions on back

Client Name: Sesco Group Project: Sibley Foundry Report Type:  Results Only  Level II  
 Level III  Level III CLP-like  
 Level IV  Level IV CLP-like  
 EDD

Address: 1426 W 25th St Location: South Bend, IN Turnaround Time:  Routine (7 working days)  
 RUSH\* (notify lab) (needed by)

City, State, Zip: Indianapolis, IN 46208 PO #: \_\_\_\_\_ Compliance Monitoring?  Yes(1)  No

Contact: Carla Gill (1) Agency/Program: \_\_\_\_\_

Telephone #: 317-397-9590 Sampler Signature: [Signature] Sampler Phone #: 317-505-4627

Send Report via  Mail  Telephone  Fax (fax #) \_\_\_\_\_ E-mail (address): Carla@sescogroup.com

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)  
 \*\* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses Preservative Types **	For Lab Use Only	
									Total Metals	Dispersed Metals
MW-1 + Dup	GW	X			10-31-07	10:30	2	X	X	ME0711054
MW-1						10:30	1		X	1A-2A
MW-2						1:15	2	X	X	2A
MW-3 + ms/msd						2:30	3	X	X	3A-B
MW-3						2:30	1		X	3A
										6A

Possible Hazard Identification:  Hazardous  Non-Hazardous  Radioactive

Sample Disposition:  Dispose as appropriate  Return  Archive

Comments: Sample temperature upon receipt in degrees C = 20

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<u>[Signature]</u>	11-1-07 1:30	<u>[Signature]</u>	11/1/07 1300
<u>[Signature]</u>	11/1/07 1657	<u>[Signature]</u>	
<u>[Signature]</u>		<u>[Signature]</u>	11/1/07 16:57

Received for Lab By (signature): [Signature] Date/Time: 11/1/07 16:57



November 14, 2007

Carla Gill  
SESCO Group, Inc.  
1426 West 29th Street  
Indianapolis, IN 46208

Work Order No.: ME0711271

RE: 3316 - Sibley / South Bend, IN  
Dear Carla Gill:

Microbac Laboratories, Inc. received 10 samples on 11/7/2007 11:05:00 AM for the analyses presented in the following report.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

Sincerely,  
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Deborah Griffiths", written over the company name.

Deborah Griffiths  
Senior Project Manager

Enclosures



**WORK ORDER SAMPLE SUMMARY**

**Date:** *Wednesday, November 14, 2007*

**CLIENT:** SESCO Group, Inc.  
**Project:** 3316 - Sibley / South Bend, IN  
**Lab Order:** ME0711271

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Tag Number</b>	<b>Collection Date</b>	<b>Date Received</b>
ME0711271-01A	SB-8r (10-12.5')		11/5/2007 1:10:00 PM	11/7/2007
ME0711271-02A	SB-8r (22.5-25')		11/5/2007 1:15:00 PM	11/7/2007
ME0711271-03A	SB-4r (10-12.5')		11/5/2007 2:30:00 PM	11/7/2007
ME0711271-04A	SB-4r (22.5-25')		11/5/2007 2:35:00 PM	11/7/2007
ME0711271-05A	SB-5r (12.5-15')		11/5/2007 3:30:00 PM	11/7/2007
ME0711271-06A	SB-5r (22.5-25')		11/5/2007 3:35:00 PM	11/7/2007
ME0711271-07A	SB-9r (15-17.5')		11/5/2007 5:00:00 PM	11/7/2007
ME0711271-08A	SB-9r (22.5-25')		11/5/2007 5:10:00 PM	11/7/2007
ME0711271-09A	DUPLICATE		11/5/2007	11/7/2007
ME0711271-10A	TRIP BLANK			11/7/2007



# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-8r (10-12.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-01  
 Collection Date: 11/05/07 13:10  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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### TOTAL METALS

Method: SW6010B

Prep Date/Time: 11/08/07 08:40 Analyst: AVC

Arsenic	A	2.6		0.52	mg/Kg-dry	1	11/12/07 13:52
Barium	A	17		0.10	mg/Kg-dry	1	11/12/07 13:52
Cadmium	A	ND		0.10	mg/Kg-dry	1	11/12/07 13:52
Chromium	A	7.3		0.16	mg/Kg-dry	1	11/12/07 13:52
Lead	A	17		0.39	mg/Kg-dry	1	11/12/07 13:52
Selenium	A	ND		1.6	mg/Kg-dry	1	11/12/07 13:52
Silver	A	ND		0.52	mg/Kg-dry	1	11/12/07 13:52

### TOTAL METALS

Method: SW7471A

Prep Date/Time: 11/08/07 09:00 Analyst: SAA

Mercury	A	ND		0.044	mg/Kg-dry	1	11/09/07 11:48
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### SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Bis(2-ethylhexyl)phthalate	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Acenaphthene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Acenaphthylene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Acetophenone	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Aniline	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Anthracene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Benzdine	A	ND		1700	µg/Kg-dry	1	11/14/07 00:14
Benzo[a]anthracene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Benzo[a]pyrene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Benzo[b]fluoranthene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Benzo[g,h,i]perylene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Benzo[k]fluoranthene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Benzoic acid	A	ND		1700	µg/Kg-dry	1	11/14/07 00:14
Benzyl alcohol	A	ND		700	µg/Kg-dry	1	11/14/07 00:14
Bis(2-chloroethoxy)methane	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Bis(2-chloroethyl)ether	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Bis(2-chloroisopropyl)ether	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Butyl benzyl phthalate	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Carbazole	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
4-Chloro-3-methylphenol	A	ND		700	µg/Kg-dry	1	11/14/07 00:14
4-Chloroaniline	A	ND		700	µg/Kg-dry	1	11/14/07 00:14
2-Chloronaphthalene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
2-Chlorophenol	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
4-Chlorophenyl phenyl ether	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Chrysene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Dibenz[a,h]anthracene	A	ND		350	µg/Kg-dry	1	11/14/07 00:14
Dibenzofuran	A	ND		350	µg/Kg-dry	1	11/14/07 00:14

# ANALYTICAL RESULTS

Date: *Wednesday, November 14, 2007*

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-8r (10-12.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-01  
 Collection Date: 11/05/07 13:10  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: SW8270C		Prep Date/Time: 11/09/07 04:48 Analyst: BEM					
1,2-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
1,3-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
1,4-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
3,3'-Dichlorobenzidine	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
2,4-Dichlorophenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
2,6-Dichlorophenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Diethyl phthalate	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Dimethyl phthalate	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
2,4-Dimethylphenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Di-n-butyl phthalate	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Di-n-octyl phthalate	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
4,6-Dinitro-2-methylphenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
2,4-Dinitrophenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
2,4-Dinitrotoluene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
2,6-Dinitrotoluene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
1,2-Diphenyl-hydrazine	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Fluoranthene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Fluorene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Hexachlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Hexachlorobutadiene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Hexachlorocyclopentadiene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Hexachloroethane	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Indeno[1,2,3cd]pyrene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Isophorone	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
2-Methylnaphthalene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
2-Methylphenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
3/4-Methylphenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
2-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
3-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
4-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
2-Nitrophenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
4-Nitrophenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
N-Nitrosodi-n-propylamine	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
N-Nitrosodimethylamine	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
N-Nitrosodiphenylamine	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Naphthalene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Nitrobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Pentachlorophenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
Phenanthrene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Phenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-8r (10-12.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-01  
 Collection Date: 11/05/07 13:10  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

Pyrene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Pyridine	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
1,2,4-Trichlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
2,4,5-Trichlorophenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:14
2,4,6-Trichlorophenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Total Cresol	A	ND	350		µg/Kg-dry	1	11/14/07 00:14
Surr: Nitrobenzene-d5	S	34.7	10-139		%REC	1	11/14/07 00:14
Surr: 2-Fluorobiphenyl	S	28.6	10-124		%REC	1	11/14/07 00:14
Surr: Terphenyl-d14	S	49.8	10-157		%REC	1	11/14/07 00:14
Surr: Phenol-d5	S	32.3	10-97.5		%REC	1	11/14/07 00:14
Surr: 2-Fluorophenol	S	24.8	10-91.4		%REC	1	11/14/07 00:14
Surr: 2,4,6-Tribromophenol	S	2.01	10-107	S	%REC	1	11/14/07 00:14

**VOLATILE ORGANICS** Method: **SW8260B** Prep Date/Time: Analyst: **CLR**

Acetone	A	ND	53		µg/Kg-dry	1	11/08/07 19:27
Acrolein	A	ND	110		µg/Kg-dry	1	11/08/07 19:27
Acrylonitrile	A	ND	110		µg/Kg-dry	1	11/08/07 19:27
Benzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Bromodichloromethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Bromoform	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Bromomethane	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
2-Butanone	A	14	11		µg/Kg-dry	1	11/08/07 19:27
Carbon Disulfide	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
Carbon tetrachloride	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Chlorobenzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Chloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
Chloroform	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Chloromethane	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
Dibromochloromethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
1,1-Dichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
1,2-Dichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
1,1-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
cis-1,2-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
trans-1,2-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
1,2-Dichloropropane	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
cis-1,3-Dichloropropene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
trans-1,3-Dichloropropene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Ethylbenzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
2-Hexanone	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
4-Methyl-2-Pentanone	A	ND	11		µg/Kg-dry	1	11/08/07 19:27



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-8r (10-12.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-01  
 Collection Date: 11/05/07 13:10  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B	Prep Date/Time:		Analyst: CLR		
Methyl-t-Butyl Ether	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Methylene chloride	A	ND	21		µg/Kg-dry	1	11/08/07 19:27
Styrene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
1,1,1,2-Tetrachloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
1,1,2,2-Tetrachloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Tetrachloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Toluene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
1,1,1-Trichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
1,1,2-Trichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Trichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Trichlorofluoromethane	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
Vinyl Acetate	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
Vinyl chloride	A	ND	11		µg/Kg-dry	1	11/08/07 19:27
m,p-Xylene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
o-Xylene	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Total Xylenes	A	ND	5.3		µg/Kg-dry	1	11/08/07 19:27
Surr: 4-Bromofluorobenzene	S	72.6	57.4-135		%REC	1	11/08/07 19:27
Surr: Dibromofluoromethane	S	95.9	63.5-139		%REC	1	11/08/07 19:27
Surr: 1,2-Dichloroethane-d4	S	102	51.7-162		%REC	1	11/08/07 19:27
Surr: Toluene-d8	S	108	66.6-143		%REC	1	11/08/07 19:27

PERCENT MOISTURE		Method: 2540B_18ED	Prep Date/Time:		Analyst: BJH		
Percent Moisture	A	6.0	0.10		WT%	1	11/08/07 13:35





# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-8r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-02  
 Collection Date: 11/05/07 13:15  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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### TOTAL METALS

Method: SW6010B

Prep Date/Time: 11/08/07 08:40 Analyst: AVC

Arsenic	A	2.3	0.54		mg/Kg-dry	1	11/12/07 13:58
Barium	A	4.7	0.11		mg/Kg-dry	1	11/12/07 13:58
Cadmium	A	0.27	0.11		mg/Kg-dry	1	11/12/07 13:58
Chromium	A	4.5	0.16		mg/Kg-dry	1	11/12/07 13:58
Lead	A	2.7	0.41		mg/Kg-dry	1	11/12/07 13:58
Selenium	A	ND	1.6		mg/Kg-dry	1	11/12/07 13:58
Silver	A	ND	0.54		mg/Kg-dry	1	11/12/07 13:58

### TOTAL METALS

Method: SW7471A

Prep Date/Time: 11/08/07 09:00 Analyst: SAA

Mercury	A	ND	0.043		mg/Kg-dry	1	11/09/07 11:49
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### SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Bis(2-ethylhexyl)phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Acenaphthene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Acenaphthylene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Acetophenone	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Aniline	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Anthracene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Benidine	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
Benzo[a]anthracene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Benzo[a]pyrene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Benzo[b]fluoranthene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Benzo[g,h,i]perylene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Benzo[k]fluoranthene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Benzoic acid	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
Benzyl alcohol	A	ND	740		µg/Kg-dry	1	11/09/07 21:57
Bis(2-chloroethoxy)methane	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Bis(2-chloroethyl)ether	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Bis(2-chloroisopropyl)ether	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Butyl benzyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Carbazole	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
4-Chloro-3-methylphenol	A	ND	740		µg/Kg-dry	1	11/09/07 21:57
4-Chloroaniline	A	ND	740		µg/Kg-dry	1	11/09/07 21:57
2-Chloronaphthalene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
2-Chlorophenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
4-Chlorophenyl phenyl ether	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Chrysene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Dibenz[a,h]anthracene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Dibenzofuran	A	ND	370		µg/Kg-dry	1	11/09/07 21:57

# ANALYTICAL RESULTS

Date: *Wednesday, November 14, 2007*

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-8r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-02  
 Collection Date: 11/05/07 13:15  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: SW8270C		Prep Date/Time: 11/09/07 04:48 Analyst: BEM					
1,2-Dichlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
1,3-Dichlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
1,4-Dichlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
3,3'-Dichlorobenzidine	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
2,4-Dichlorophenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
2,6-Dichlorophenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Diethyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Dimethyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
2,4-Dimethylphenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Di-n-butyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Di-n-octyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
4,6-Dinitro-2-methylphenol	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
2,4-Dinitrophenol	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
2,4-Dinitrotoluene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
2,6-Dinitrotoluene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
1,2-Diphenyl-hydrazine	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Fluoranthene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Fluorene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Hexachlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Hexachlorobutadiene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Hexachlorocyclopentadiene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Hexachloroethane	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Indeno[1,2,3cd]pyrene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Isophorone	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
2-Methylnaphthalene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
2-Methylphenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
3/4-Methylphenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
2-Nitroaniline	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
3-Nitroaniline	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
4-Nitroaniline	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
2-Nitrophenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
4-Nitrophenol	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
N-Nitrosodi-n-propylamine	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
N-Nitrosodimethylamine	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
N-Nitrosodiphenylamine	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Naphthalene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Nitrobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Pentachlorophenol	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
Phenanthrene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Phenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-8r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-02  
 Collection Date: 11/05/07 13:15  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

Pyrene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Pyridine	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
1,2,4-Trichlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
2,4,5-Trichlorophenol	A	ND	1800		µg/Kg-dry	1	11/09/07 21:57
2,4,6-Trichlorophenol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Total Cresol	A	ND	370		µg/Kg-dry	1	11/09/07 21:57
Surr: Nitrobenzene-d5	S	38.6	10-139		%REC	1	11/09/07 21:57
Surr: 2-Fluorobiphenyl	S	40.3	10-124		%REC	1	11/09/07 21:57
Surr: Terphenyl-d14	S	56.1	10-157		%REC	1	11/09/07 21:57
Surr: Phenol-d5	S	42.1	10-97.5		%REC	1	11/09/07 21:57
Surr: 2-Fluorophenol	S	40.2	10-91.4		%REC	1	11/09/07 21:57
Surr: 2,4,6-Tribromophenol	S	45.3	10-107		%REC	1	11/09/07 21:57

**VOLATILE ORGANICS** Method: **SW8260B** Prep Date/Time: Analyst: **CLR**

Acetone	A	ND	56		µg/Kg-dry	1	11/08/07 20:02
Acrolein	A	ND	110		µg/Kg-dry	1	11/08/07 20:02
Acrylonitrile	A	ND	110		µg/Kg-dry	1	11/08/07 20:02
Benzene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Bromodichloromethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Bromoform	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Bromomethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
2-Butanone	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
Carbon Disulfide	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
Carbon tetrachloride	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Chlorobenzene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Chloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
Chloroform	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Chloromethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
Dibromochloromethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
1,1-Dichloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
1,2-Dichloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
1,1-Dichloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
cis-1,2-Dichloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
trans-1,2-Dichloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
1,2-Dichloropropane	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
cis-1,3-Dichloropropene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
trans-1,3-Dichloropropene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Ethylbenzene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
2-Hexanone	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
4-Methyl-2-Pentanone	A	ND	11		µg/Kg-dry	1	11/08/07 20:02



# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-8r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-02  
 Collection Date: 11/05/07 13:15  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: CLR

Methyl-t-Butyl Ether	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Methylene chloride	A	ND	22		µg/Kg-dry	1	11/08/07 20:02
Styrene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
1,1,1,2-Tetrachloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
1,1,2,2-Tetrachloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Tetrachloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Toluene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
1,1,1-Trichloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
1,1,2-Trichloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Trichloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Trichlorofluoromethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
Vinyl Acetate	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
Vinyl chloride	A	ND	11		µg/Kg-dry	1	11/08/07 20:02
m,p-Xylene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
o-Xylene	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Total Xylenes	A	ND	5.6		µg/Kg-dry	1	11/08/07 20:02
Surr: 4-Bromofluorobenzene	S	88.6	57.4-135		%REC	1	11/08/07 20:02
Surr: Dibromofluoromethane	S	94.9	63.5-139		%REC	1	11/08/07 20:02
Surr: 1,2-Dichloroethane-d4	S	99.8	51.7-162		%REC	1	11/08/07 20:02
Surr: Toluene-d8	S	94.9	66.6-143		%REC	1	11/08/07 20:02

## PERCENT MOISTURE

Method: 2540B\_18ED

Prep Date/Time:

Analyst: BJH

Percent Moisture	A	11	0.10		WT%	1	11/08/07 13:35
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**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-4r (10-12.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-03  
 Collection Date: 11/05/07 14:30  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **11/08/07 08:40** Analyst: **AVC**

Arsenic	A	<b>2.3</b>	0.52		mg/Kg-dry	1	11/12/07 14:03
Barium	A	<b>12</b>	0.10		mg/Kg-dry	1	11/12/07 14:03
Cadmium	A	<b>0.53</b>	0.10		mg/Kg-dry	1	11/12/07 14:03
Chromium	A	<b>5.1</b>	0.16		mg/Kg-dry	1	11/12/07 14:03
Lead	A	<b>6.4</b>	0.39		mg/Kg-dry	1	11/12/07 14:03
Selenium	A	<b>ND</b>	1.6		mg/Kg-dry	1	11/12/07 14:03
Silver	A	<b>ND</b>	0.52		mg/Kg-dry	1	11/12/07 14:03

**TOTAL METALS** Method: **SW7471A** Prep Date/Time: **11/08/07 09:00** Analyst: **SAA**

Mercury	A	<b>ND</b>	0.043		mg/Kg-dry	1	11/09/07 11:51
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

4-Bromophenyl phenyl ether	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Bis(2-ethylhexyl)phthalate	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Acenaphthene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Acenaphthylene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Acetophenone	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Aniline	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Anthracene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Benzidine	A	<b>ND</b>	1700		µg/Kg-dry	1	11/14/07 00:37
Benzo[a]anthracene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Benzo[a]pyrene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Benzo[b]fluoranthene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Benzo[g,h,i]perylene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Benzo[k]fluoranthene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Benzoic acid	A	<b>ND</b>	1700		µg/Kg-dry	1	11/14/07 00:37
Benzyl alcohol	A	<b>ND</b>	700		µg/Kg-dry	1	11/14/07 00:37
Bis(2-chloroethoxy)methane	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Bis(2-chloroethyl)ether	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Bis(2-chloroisopropyl)ether	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Butyl benzyl phthalate	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Carbazole	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
4-Chloro-3-methylphenol	A	<b>ND</b>	700		µg/Kg-dry	1	11/14/07 00:37
4-Chloroaniline	A	<b>ND</b>	700		µg/Kg-dry	1	11/14/07 00:37
2-Chloronaphthalene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
2-Chlorophenol	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
4-Chlorophenyl phenyl ether	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Chrysene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Dibenz[a,h]anthracene	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37
Dibenzofuran	A	<b>ND</b>	350		µg/Kg-dry	1	11/14/07 00:37

# ANALYTICAL RESULTS

Date: *Wednesday, November 14, 2007*

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-4r (10-12.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-03  
 Collection Date: 11/05/07 14:30  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## SEMIVOLATILE ORGANICS

Method: **SW8270C**

Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

1,2-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
1,3-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
1,4-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
3,3'-Dichlorobenzidine	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
2,4-Dichlorophenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
2,6-Dichlorophenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Diethyl phthalate	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Dimethyl phthalate	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
2,4-Dimethylphenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Di-n-butyl phthalate	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Di-n-octyl phthalate	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
4,6-Dinitro-2-methylphenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
2,4-Dinitrophenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
2,4-Dinitrotoluene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
2,6-Dinitrotoluene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
1,2-Diphenyl-hydrazine	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Fluoranthene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Fluorene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Hexachlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Hexachlorobutadiene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Hexachlorocyclopentadiene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Hexachloroethane	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Indeno[1,2,3cd]pyrene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Isophorone	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
2-Methylnaphthalene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
2-Methylphenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
3/4-Methylphenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
2-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
3-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
4-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
2-Nitrophenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
4-Nitrophenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
N-Nitrosodi-n-propylamine	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
N-Nitrosodimethylamine	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
N-Nitrosodiphenylamine	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Naphthalene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Nitrobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Pentachlorophenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
Phenanthrene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Phenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37

# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-4r (10-12.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-03  
 Collection Date: 11/05/07 14:30  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

Pyrene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Pyridine	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
1,2,4-Trichlorobenzene	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
2,4,5-Trichlorophenol	A	ND	1700		µg/Kg-dry	1	11/14/07 00:37
2,4,6-Trichlorophenol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Total Cresol	A	ND	350		µg/Kg-dry	1	11/14/07 00:37
Surr: Nitrobenzene-d5	S	35.7	10-139		%REC	1	11/14/07 00:37
Surr: 2-Fluorobiphenyl	S	23.9	10-124		%REC	1	11/14/07 00:37
Surr: Terphenyl-d14	S	46.2	10-157		%REC	1	11/14/07 00:37
Surr: Phenol-d5	S	33.9	10-97.5		%REC	1	11/14/07 00:37
Surr: 2-Fluorophenol	S	30.3	10-91.4		%REC	1	11/14/07 00:37
Surr: 2,4,6-Tribromophenol	S	22.0	10-107		%REC	1	11/14/07 00:37

## VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: CLR

Acetone	A	ND	53		µg/Kg-dry	1	11/08/07 20:37
Acrolein	A	ND	110		µg/Kg-dry	1	11/08/07 20:37
Acrylonitrile	A	ND	110		µg/Kg-dry	1	11/08/07 20:37
Benzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Bromodichloromethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Bromoform	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Bromomethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
2-Butanone	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
Carbon Disulfide	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
Carbon tetrachloride	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Chlorobenzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Chloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
Chloroform	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Chloromethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
Dibromochloromethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
1,1-Dichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
1,2-Dichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
1,1-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
cis-1,2-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
trans-1,2-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
1,2-Dichloropropane	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
cis-1,3-Dichloropropene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
trans-1,3-Dichloropropene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Ethylbenzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
2-Hexanone	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
4-Methyl-2-Pentanone	A	ND	11		µg/Kg-dry	1	11/08/07 20:37



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

**Client:** SESCO Group, Inc.  
**Client Project:** 3316 - Sibley / South Bend, IN  
**Client Sample ID:** SB-4r (10-12.5')  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0711271-03  
**Collection Date:** 11/05/07 14:30  
**Date Received:** 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**VOLATILE ORGANICS** Method: **SW8260B** Prep Date/Time: Analyst: **CLR**

Methyl-t-Butyl Ether	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Methylene chloride	A	ND	21		µg/Kg-dry	1	11/08/07 20:37
Styrene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
1,1,1,2-Tetrachloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
1,1,2,2-Tetrachloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Tetrachloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Toluene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
1,1,1-Trichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
1,1,2-Trichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Trichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Trichlorofluoromethane	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
Vinyl Acetate	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
Vinyl chloride	A	ND	11		µg/Kg-dry	1	11/08/07 20:37
m,p-Xylene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
o-Xylene	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Total Xylenes	A	ND	5.3		µg/Kg-dry	1	11/08/07 20:37
Surr: 4-Bromofluorobenzene	S	77.2	57.4-135		%REC	1	11/08/07 20:37
Surr: Dibromofluoromethane	S	100	63.5-139		%REC	1	11/08/07 20:37
Surr: 1,2-Dichloroethane-d4	S	103	51.7-162		%REC	1	11/08/07 20:37
Surr: Toluene-d8	S	103	66.6-143		%REC	1	11/08/07 20:37

**PERCENT MOISTURE** Method: **2540B\_18ED** Prep Date/Time: Analyst: **BJH**

Percent Moisture	A	5.2	0.10		WT%	1	11/08/07 13:35
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**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-4r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-04  
 Collection Date: 11/05/07 14:35  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **11/08/07 08:40** Analyst: **AVC**

Arsenic	A	1.4	0.51		mg/Kg-dry	1	11/12/07 14:08
Barium	A	4.5	0.10		mg/Kg-dry	1	11/12/07 14:08
Cadmium	A	0.20	0.10		mg/Kg-dry	1	11/12/07 14:08
Chromium	A	4.4	0.15		mg/Kg-dry	1	11/12/07 14:08
Lead	A	2.5	0.38		mg/Kg-dry	1	11/12/07 14:08
Selenium	A	ND	1.5		mg/Kg-dry	1	11/12/07 14:08
Silver	A	ND	0.51		mg/Kg-dry	1	11/12/07 14:08

**TOTAL METALS** Method: **SW7471A** Prep Date/Time: **11/08/07 09:00** Analyst: **SAA**

Mercury	A	ND	0.043		mg/Kg-dry	1	11/09/07 11:52
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

4-Bromophenyl phenyl ether	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Bis(2-ethylhexyl)phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Acenaphthene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Acenaphthylene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Acetophenone	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Aniline	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Anthracene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Benidine	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
Benzo[a]anthracene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Benzo[a]pyrene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Benzo[b]fluoranthene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Benzo[g,h,i]perylene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Benzo[k]fluoranthene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Benzoic acid	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
Benzyl alcohol	A	ND	740		µg/Kg-dry	1	11/09/07 22:22
Bis(2-chloroethoxy)methane	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Bis(2-chloroethyl)ether	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Bis(2-chloroisopropyl)ether	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Butyl benzyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Carbazole	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
4-Chloro-3-methylphenol	A	ND	740		µg/Kg-dry	1	11/09/07 22:22
4-Chloroaniline	A	ND	740		µg/Kg-dry	1	11/09/07 22:22
2-Chloronaphthalene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
2-Chlorophenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
4-Chlorophenyl phenyl ether	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Chrysene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Dibenz[a,h]anthracene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Dibenzofuran	A	ND	370		µg/Kg-dry	1	11/09/07 22:22

# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-4r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-04  
 Collection Date: 11/05/07 14:35  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: SW8270C		Prep Date/Time: 11/09/07 04:48 Analyst: BEM					
1,2-Dichlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
1,3-Dichlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
1,4-Dichlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
3,3'-Dichlorobenzidine	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
2,4-Dichlorophenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
2,6-Dichlorophenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Diethyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Dimethyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
2,4-Dimethylphenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Di-n-butyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Di-n-octyl phthalate	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
4,6-Dinitro-2-methylphenol	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
2,4-Dinitrophenol	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
2,4-Dinitrotoluene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
2,6-Dinitrotoluene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
1,2-Diphenyl-hydrazine	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Fluoranthene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Fluorene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Hexachlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Hexachlorobutadiene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Hexachlorocyclopentadiene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Hexachloroethane	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Indeno[1,2,3cd]pyrene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Isophorone	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
2-Methylnaphthalene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
2-Methylphenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
3/4-Methylphenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
2-Nitroaniline	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
3-Nitroaniline	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
4-Nitroaniline	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
2-Nitrophenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
4-Nitrophenol	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
N-Nitrosodi-n-propylamine	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
N-Nitrosodimethylamine	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
N-Nitrosodiphenylamine	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Naphthalene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Nitrobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Pentachlorophenol	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
Phenanthrene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Phenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22

# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-4r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-04  
 Collection Date: 11/05/07 14:35  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

Pyrene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Pyridine	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
1,2,4-Trichlorobenzene	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
2,4,5-Trichlorophenol	A	ND	1800		µg/Kg-dry	1	11/09/07 22:22
2,4,6-Trichlorophenol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Total Cresol	A	ND	370		µg/Kg-dry	1	11/09/07 22:22
Surr: Nitrobenzene-d5	S	41.2	10-139		%REC	1	11/09/07 22:22
Surr: 2-Fluorobiphenyl	S	41.1	10-124		%REC	1	11/09/07 22:22
Surr: Terphenyl-d14	S	60.4	10-157		%REC	1	11/09/07 22:22
Surr: Phenol-d5	S	45.6	10-97.5		%REC	1	11/09/07 22:22
Surr: 2-Fluorophenol	S	42.1	10-91.4		%REC	1	11/09/07 22:22
Surr: 2,4,6-Tribromophenol	S	47.1	10-107		%REC	1	11/09/07 22:22

## VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: CLR

Acetone	A	ND	56		µg/Kg-dry	1	11/08/07 17:37
Acrolein	A	ND	110		µg/Kg-dry	1	11/08/07 17:37
Acrylonitrile	A	ND	110		µg/Kg-dry	1	11/08/07 17:37
Benzene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Bromodichloromethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Bromoform	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Bromomethane	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
2-Butanone	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
Carbon Disulfide	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
Carbon tetrachloride	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Chlorobenzene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Chloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
Chloroform	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Chloromethane	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
Dibromochloromethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
1,1-Dichloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
1,2-Dichloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
1,1-Dichloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
cis-1,2-Dichloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
trans-1,2-Dichloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
1,2-Dichloropropane	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
cis-1,3-Dichloropropene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
trans-1,3-Dichloropropene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Ethylbenzene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
2-Hexanone	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
4-Methyl-2-Pentanone	A	ND	11		µg/Kg-dry	1	11/08/07 17:37



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-4r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-04  
 Collection Date: 11/05/07 14:35  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B		Prep Date/Time:		Analyst: CLR	
Methyl-t-Butyl Ether	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Methylene chloride	A	27	22		µg/Kg-dry	1	11/08/07 17:37
Styrene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
1,1,1,2-Tetrachloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
1,1,2,2-Tetrachloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Tetrachloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Toluene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
1,1,1-Trichloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
1,1,2-Trichloroethane	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Trichloroethene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Trichlorofluoromethane	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
Vinyl Acetate	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
Vinyl chloride	A	ND	11		µg/Kg-dry	1	11/08/07 17:37
m,p-Xylene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
o-Xylene	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Total Xylenes	A	ND	5.6		µg/Kg-dry	1	11/08/07 17:37
Surr: 4-Bromofluorobenzene	S	85.8	57.4-135		%REC	1	11/08/07 17:37
Surr: Dibromofluoromethane	S	96.5	63.5-139		%REC	1	11/08/07 17:37
Surr: 1,2-Dichloroethane-d4	S	99.7	51.7-162		%REC	1	11/08/07 17:37
Surr: Toluene-d8	S	94.6	66.6-143		%REC	1	11/08/07 17:37

PERCENT MOISTURE		Method: 2540B_18ED		Prep Date/Time:		Analyst: BJH	
Percent Moisture	A	11	0.10		WT%	1	11/08/07 13:35



# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-5r (12.5-15')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-05  
 Collection Date: 11/05/07 15:30  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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### TOTAL METALS

Method: SW6010B

Prep Date/Time: 11/08/07 08:40 Analyst: AVC

Arsenic	A	2.1	0.51		mg/Kg-dry	1	11/12/07 14:30
Barium	A	14	0.10		mg/Kg-dry	1	11/12/07 14:30
Cadmium	A	0.57	0.10		mg/Kg-dry	1	11/12/07 14:30
Chromium	A	8.0	0.15		mg/Kg-dry	1	11/12/07 14:30
Lead	A	6.0	0.38		mg/Kg-dry	1	11/12/07 14:30
Selenium	A	ND	1.5		mg/Kg-dry	1	11/12/07 14:30
Silver	A	ND	0.51		mg/Kg-dry	1	11/12/07 14:30

### TOTAL METALS

Method: SW7471A

Prep Date/Time: 11/08/07 09:00 Analyst: SAA

Mercury	A	ND	0.040		mg/Kg-dry	1	11/09/07 11:59
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### SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Bis(2-ethylhexyl)phthalate	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Acenaphthene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Acenaphthylene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Acetophenone	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Aniline	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Anthracene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Benidine	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
Benzo[a]anthracene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Benzo[a]pyrene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Benzo[b]fluoranthene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Benzo[g,h,i]perylene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Benzo[k]fluoranthene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Benzoic acid	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
Benzyl alcohol	A	ND	700		µg/Kg-dry	1	11/09/07 23:35
Bis(2-chloroethoxy)methane	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Bis(2-chloroethyl)ether	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Bis(2-chloroisopropyl)ether	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Butyl benzyl phthalate	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Carbazole	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
4-Chloro-3-methylphenol	A	ND	700		µg/Kg-dry	1	11/09/07 23:35
4-Chloroaniline	A	ND	700		µg/Kg-dry	1	11/09/07 23:35
2-Chloronaphthalene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
2-Chlorophenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
4-Chlorophenyl phenyl ether	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Chrysene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Dibenz[a,h]anthracene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Dibenzofuran	A	ND	350		µg/Kg-dry	1	11/09/07 23:35

# ANALYTICAL RESULTS

Date: *Wednesday, November 14, 2007*

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-5r (12.5-15')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-05  
 Collection Date: 11/05/07 15:30  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: SW8270C		Prep Date/Time: 11/09/07 04:48 Analyst: BEM					
1,2-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
1,3-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
1,4-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
3,3'-Dichlorobenzidine	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
2,4-Dichlorophenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
2,6-Dichlorophenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Diethyl phthalate	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Dimethyl phthalate	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
2,4-Dimethylphenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Di-n-butyl phthalate	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Di-n-octyl phthalate	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
4,6-Dinitro-2-methylphenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
2,4-Dinitrophenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
2,4-Dinitrotoluene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
2,6-Dinitrotoluene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
1,2-Diphenyl-hydrazine	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Fluoranthene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Fluorene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Hexachlorobenzene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Hexachlorobutadiene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Hexachlorocyclopentadiene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Hexachloroethane	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Indeno[1,2,3cd]pyrene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Isophorone	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
2-Methylnaphthalene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
2-Methylphenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
3/4-Methylphenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
2-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
3-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
4-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
2-Nitrophenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
4-Nitrophenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
N-Nitrosodi-n-propylamine	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
N-Nitrosodimethylamine	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
N-Nitrosodiphenylamine	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Naphthalene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Nitrobenzene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Pentachlorophenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
Phenanthrene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Phenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-5r (12.5-15')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-05  
 Collection Date: 11/05/07 15:30  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

Pyrene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Pyridine	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
1,2,4-Trichlorobenzene	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
2,4,5-Trichlorophenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:35
2,4,6-Trichlorophenol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Total Cresol	A	ND	350		µg/Kg-dry	1	11/09/07 23:35
Surr: Nitrobenzene-d5	S	43.4	10-139		%REC	1	11/09/07 23:35
Surr: 2-Fluorobiphenyl	S	41.3	10-124		%REC	1	11/09/07 23:35
Surr: Terphenyl-d14	S	61.1	10-157		%REC	1	11/09/07 23:35
Surr: Phenol-d5	S	45.6	10-97.5		%REC	1	11/09/07 23:35
Surr: 2-Fluorophenol	S	41.1	10-91.4		%REC	1	11/09/07 23:35
Surr: 2,4,6-Tribromophenol	S	49.2	10-107		%REC	1	11/09/07 23:35

**VOLATILE ORGANICS** Method: **SW8260B** Prep Date/Time: Analyst: **CLR**

Acetone	A	ND	53		µg/Kg-dry	1	11/08/07 21:12
Acrolein	A	ND	110		µg/Kg-dry	1	11/08/07 21:12
Acrylonitrile	A	ND	110		µg/Kg-dry	1	11/08/07 21:12
Benzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Bromodichloromethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Bromoform	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Bromomethane	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
2-Butanone	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
Carbon Disulfide	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
Carbon tetrachloride	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Chlorobenzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Chloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
Chloroform	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Chloromethane	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
Dibromochloromethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
1,1-Dichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
1,2-Dichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
1,1-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
cis-1,2-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
trans-1,2-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
1,2-Dichloropropane	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
cis-1,3-Dichloropropene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
trans-1,3-Dichloropropene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Ethylbenzene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
2-Hexanone	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
4-Methyl-2-Pentanone	A	ND	11		µg/Kg-dry	1	11/08/07 21:12



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-5r (12.5-15')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-05  
 Collection Date: 11/05/07 15:30  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B		Prep Date/Time:		Analyst: CLR	
Methyl-t-Butyl Ether	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Methylene chloride	A	ND	21		µg/Kg-dry	1	11/08/07 21:12
Styrene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
1,1,1,2-Tetrachloroethane	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
1,1,2,2-Tetrachloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Tetrachloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Toluene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
1,1,1-Trichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
1,1,2-Trichloroethane	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Trichloroethene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Trichlorofluoromethane	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
Vinyl Acetate	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
Vinyl chloride	A	ND	11		µg/Kg-dry	1	11/08/07 21:12
m,p-Xylene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
o-Xylene	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Total Xylenes	A	ND	5.3		µg/Kg-dry	1	11/08/07 21:12
Surr: 4-Bromofluorobenzene	S	83.9	57.4-135		%REC	1	11/08/07 21:12
Surr: Dibromofluoromethane	S	97.4	63.5-139		%REC	1	11/08/07 21:12
Surr: 1,2-Dichloroethane-d4	S	98.9	51.7-162		%REC	1	11/08/07 21:12
Surr: Toluene-d8	S	99.8	66.6-143		%REC	1	11/08/07 21:12

PERCENT MOISTURE		Method: 2540B_18ED		Prep Date/Time:		Analyst: BJH	
Percent Moisture	A	6.2	0.10		WT%	1	11/08/07 13:35





# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-5r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-06  
 Collection Date: 11/05/07 15:35  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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### TOTAL METALS

Method: SW6010B

Prep Date/Time: 11/08/07 08:40 Analyst: AVC

Arsenic	A	ND	0.52		mg/Kg-dry	1	11/12/07 16:27
Barium	A	3.3	0.10		mg/Kg-dry	1	11/12/07 16:27
Cadmium	A	0.11	0.10		mg/Kg-dry	1	11/12/07 16:27
Chromium	A	1.9	0.16		mg/Kg-dry	1	11/12/07 16:27
Lead	A	0.79	0.39		mg/Kg-dry	1	11/12/07 16:27
Selenium	A	ND	1.6		mg/Kg-dry	1	11/12/07 16:27
Silver	A	ND	0.52		mg/Kg-dry	1	11/12/07 16:27

### TOTAL METALS

Method: SW7471A

Prep Date/Time: 11/08/07 09:00 Analyst: SAA

Mercury	A	ND	0.039		mg/Kg-dry	1	11/09/07 12:01
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### SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Bis(2-ethylhexyl)phthalate	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Acenaphthene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Acenaphthylene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Acetophenone	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Aniline	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Anthracene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Benidine	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
Benzo[a]anthracene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Benzo[a]pyrene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Benzo[b]fluoranthene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Benzo[g,h,i]perylene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Benzo[k]fluoranthene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Benzoic acid	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
Benzyl alcohol	A	ND	710		µg/Kg-dry	1	11/09/07 23:58
Bis(2-chloroethoxy)methane	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Bis(2-chloroethyl)ether	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Bis(2-chloroisopropyl)ether	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Butyl benzyl phthalate	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Carbazole	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
4-Chloro-3-methylphenol	A	ND	710		µg/Kg-dry	1	11/09/07 23:58
4-Chloroaniline	A	ND	710		µg/Kg-dry	1	11/09/07 23:58
2-Chloronaphthalene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
2-Chlorophenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
4-Chlorophenyl phenyl ether	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Chrysene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Dibenz[a,h]anthracene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Dibenzofuran	A	ND	360		µg/Kg-dry	1	11/09/07 23:58

# ANALYTICAL RESULTS

Date: *Wednesday, November 14, 2007*

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-5r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-06  
 Collection Date: 11/05/07 15:35  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: SW8270C		Prep Date/Time: 11/09/07 04:48 Analyst: BEM					
1,2-Dichlorobenzene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
1,3-Dichlorobenzene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
1,4-Dichlorobenzene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
3,3'-Dichlorobenzidine	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
2,4-Dichlorophenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
2,6-Dichlorophenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Diethyl phthalate	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Dimethyl phthalate	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
2,4-Dimethylphenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Di-n-butyl phthalate	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Di-n-octyl phthalate	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
4,6-Dinitro-2-methylphenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
2,4-Dinitrophenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
2,4-Dinitrotoluene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
2,6-Dinitrotoluene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
1,2-Diphenyl-hydrazine	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Fluoranthene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Fluorene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Hexachlorobenzene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Hexachlorobutadiene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Hexachlorocyclopentadiene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Hexachloroethane	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Indeno[1,2,3cd]pyrene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Isophorone	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
2-Methylnaphthalene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
2-Methylphenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
3/4-Methylphenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
2-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
3-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
4-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
2-Nitrophenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
4-Nitrophenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
N-Nitrosodi-n-propylamine	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
N-Nitrosodimethylamine	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
N-Nitrosodiphenylamine	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Naphthalene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Nitrobenzene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Pentachlorophenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
Phenanthrene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Phenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58

# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-5r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-06  
 Collection Date: 11/05/07 15:35  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

Pyrene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Pyridine	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
1,2,4-Trichlorobenzene	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
2,4,5-Trichlorophenol	A	ND	1700		µg/Kg-dry	1	11/09/07 23:58
2,4,6-Trichlorophenol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Total Cresol	A	ND	360		µg/Kg-dry	1	11/09/07 23:58
Surr: Nitrobenzene-d5	S	42.7	10-139		%REC	1	11/09/07 23:58
Surr: 2-Fluorobiphenyl	S	38.4	10-124		%REC	1	11/09/07 23:58
Surr: Terphenyl-d14	S	61.4	10-157		%REC	1	11/09/07 23:58
Surr: Phenol-d5	S	43.8	10-97.5		%REC	1	11/09/07 23:58
Surr: 2-Fluorophenol	S	39.9	10-91.4		%REC	1	11/09/07 23:58
Surr: 2,4,6-Tribromophenol	S	47.2	10-107		%REC	1	11/09/07 23:58

## VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Acetone	A	ND	54		µg/Kg-dry	1	11/09/07 16:26
Acrolein	A	ND	110		µg/Kg-dry	1	11/09/07 16:26
Acrylonitrile	A	ND	110		µg/Kg-dry	1	11/09/07 16:26
Benzene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
Bromodichloromethane	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
Bromoform	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
Bromomethane	A	ND	11		µg/Kg-dry	1	11/09/07 16:26
2-Butanone	A	ND	11		µg/Kg-dry	1	11/09/07 16:26
Carbon Disulfide	A	ND	11		µg/Kg-dry	1	11/09/07 16:26
Carbon tetrachloride	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
Chlorobenzene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
Chloroethane	A	ND	11		µg/Kg-dry	1	11/09/07 16:26
Chloroform	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
Chloromethane	A	ND	11		µg/Kg-dry	1	11/09/07 16:26
Dibromochloromethane	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
1,1-Dichloroethane	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
1,2-Dichloroethane	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
1,1-Dichloroethene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
cis-1,2-Dichloroethene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
trans-1,2-Dichloroethene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
1,2-Dichloropropane	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
cis-1,3-Dichloropropene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
trans-1,3-Dichloropropene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
Ethylbenzene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26
2-Hexanone	A	ND	11		µg/Kg-dry	1	11/09/07 16:26
4-Methyl-2-Pentanone	A	ND	11		µg/Kg-dry	1	11/09/07 16:26



# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-5r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-06  
 Collection Date: 11/05/07 15:35  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B		Prep Date/Time:			Analyst: MLT	
Methyl-t-Butyl Ether	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
Methylene chloride	A	ND	22		µg/Kg-dry	1	11/09/07 16:26	
Styrene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
1,1,1,2-Tetrachloroethane	A	ND	11		µg/Kg-dry	1	11/09/07 16:26	
1,1,2,2-Tetrachloroethane	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
Tetrachloroethene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
Toluene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
1,1,1-Trichloroethane	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
1,1,2-Trichloroethane	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
Trichloroethene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
Trichlorofluoromethane	A	ND	11		µg/Kg-dry	1	11/09/07 16:26	
Vinyl Acetate	A	ND	11		µg/Kg-dry	1	11/09/07 16:26	
Vinyl chloride	A	ND	11		µg/Kg-dry	1	11/09/07 16:26	
m,p-Xylene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
o-Xylene	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
Total Xylenes	A	ND	5.4		µg/Kg-dry	1	11/09/07 16:26	
Surr: 4-Bromofluorobenzene	S	88.8	57.4-135		%REC	1	11/09/07 16:26	
Surr: Dibromofluoromethane	S	95.7	63.5-139		%REC	1	11/09/07 16:26	
Surr: 1,2-Dichloroethane-d4	S	97.3	51.7-162		%REC	1	11/09/07 16:26	
Surr: Toluene-d8	S	94.8	66.6-143		%REC	1	11/09/07 16:26	

PERCENT MOISTURE		Method: 2540B_18ED		Prep Date/Time:			Analyst: BJH	
Percent Moisture	A	7.5	0.10		WT%	1	11/08/07 13:35	

# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-9r (15-17.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-07  
 Collection Date: 11/05/07 17:00  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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### TOTAL METALS

Method: SW6010B

Prep Date/Time: 11/08/07 08:40 Analyst: AVC

Arsenic	A	2.3	0.48		mg/Kg-dry	1	11/12/07 16:32
Barium	A	22	0.097		mg/Kg-dry	1	11/12/07 16:32
Cadmium	A	0.71	0.097		mg/Kg-dry	1	11/12/07 16:32
Chromium	A	21	0.15		mg/Kg-dry	1	11/12/07 16:32
Lead	A	5.9	0.36		mg/Kg-dry	1	11/12/07 16:32
Selenium	A	ND	1.5		mg/Kg-dry	1	11/12/07 16:32
Silver	A	ND	0.48		mg/Kg-dry	1	11/12/07 16:32

### TOTAL METALS

Method: SW7471A

Prep Date/Time: 11/08/07 09:00 Analyst: SAA

Mercury	A	ND	0.038		mg/Kg-dry	1	11/09/07 12:02
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### SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Bis(2-ethylhexyl)phthalate	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Acenaphthene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Acenaphthylene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Acetophenone	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Aniline	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Anthracene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Benzidine	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
Benzo[a]anthracene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Benzo[a]pyrene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Benzo[b]fluoranthene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Benzo[g,h,i]perylene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Benzo[k]fluoranthene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Benzoic acid	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
Benzyl alcohol	A	ND	710		µg/Kg-dry	1	11/10/07 00:23
Bis(2-chloroethoxy)methane	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Bis(2-chloroethyl)ether	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Bis(2-chloroisopropyl)ether	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Butyl benzyl phthalate	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Carbazole	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
4-Chloro-3-methylphenol	A	ND	710		µg/Kg-dry	1	11/10/07 00:23
4-Chloroaniline	A	ND	710		µg/Kg-dry	1	11/10/07 00:23
2-Chloronaphthalene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
2-Chlorophenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
4-Chlorophenyl phenyl ether	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Chrysene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Dibenz[a,h]anthracene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Dibenzofuran	A	ND	350		µg/Kg-dry	1	11/10/07 00:23

# ANALYTICAL RESULTS

Date: *Wednesday, November 14, 2007*

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-9r (15-17.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-07  
 Collection Date: 11/05/07 17:00  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: SW8270C		Prep Date/Time: 11/09/07 04:48 Analyst: BEM					
1,2-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
1,3-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
1,4-Dichlorobenzene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
3,3'-Dichlorobenzidine	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
2,4-Dichlorophenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
2,6-Dichlorophenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Diethyl phthalate	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Dimethyl phthalate	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
2,4-Dimethylphenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Di-n-butyl phthalate	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Di-n-octyl phthalate	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
4,6-Dinitro-2-methylphenol	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
2,4-Dinitrophenol	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
2,4-Dinitrotoluene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
2,6-Dinitrotoluene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
1,2-Diphenyl-hydrazine	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Fluoranthene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Fluorene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Hexachlorobenzene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Hexachlorobutadiene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Hexachlorocyclopentadiene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Hexachloroethane	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Indeno[1,2,3cd]pyrene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Isophorone	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
2-Methylnaphthalene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
2-Methylphenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
3/4-Methylphenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
2-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
3-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
4-Nitroaniline	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
2-Nitrophenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
4-Nitrophenol	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
N-Nitrosodi-n-propylamine	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
N-Nitrosodimethylamine	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
N-Nitrosodiphenylamine	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Naphthalene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Nitrobenzene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Pentachlorophenol	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
Phenanthrene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Phenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-9r (15-17.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-07  
 Collection Date: 11/05/07 17:00  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

Pyrene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Pyridine	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
1,2,4-Trichlorobenzene	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
2,4,5-Trichlorophenol	A	ND	1700		µg/Kg-dry	1	11/10/07 00:23
2,4,6-Trichlorophenol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Total Cresol	A	ND	350		µg/Kg-dry	1	11/10/07 00:23
Surr: Nitrobenzene-d5	S	39.5	10-139		%REC	1	11/10/07 00:23
Surr: 2-Fluorobiphenyl	S	38.6	10-124		%REC	1	11/10/07 00:23
Surr: Terphenyl-d14	S	53.8	10-157		%REC	1	11/10/07 00:23
Surr: Phenol-d5	S	38.2	10-97.5		%REC	1	11/10/07 00:23
Surr: 2-Fluorophenol	S	33.4	10-91.4		%REC	1	11/10/07 00:23
Surr: 2,4,6-Tribromophenol	S	15.4	10-107		%REC	1	11/10/07 00:23

**VOLATILE ORGANICS** Method: **SW8260B** Prep Date/Time: Analyst: **BRR**

Acetone	A	ND	54		µg/Kg-dry	1	11/10/07 10:20
Acrolein	A	ND	110		µg/Kg-dry	1	11/10/07 10:20
Acrylonitrile	A	ND	110		µg/Kg-dry	1	11/10/07 10:20
Benzene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
Bromodichloromethane	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
Bromoform	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
Bromomethane	A	ND	11		µg/Kg-dry	1	11/10/07 10:20
2-Butanone	A	ND	11		µg/Kg-dry	1	11/10/07 10:20
Carbon Disulfide	A	ND	11		µg/Kg-dry	1	11/10/07 10:20
Carbon tetrachloride	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
Chlorobenzene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
Chloroethane	A	ND	11		µg/Kg-dry	1	11/10/07 10:20
Chloroform	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
Chloromethane	A	ND	11		µg/Kg-dry	1	11/10/07 10:20
Dibromochloromethane	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
1,1-Dichloroethane	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
1,2-Dichloroethane	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
1,1-Dichloroethene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
cis-1,2-Dichloroethene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
trans-1,2-Dichloroethene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
1,2-Dichloropropane	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
cis-1,3-Dichloropropene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
trans-1,3-Dichloropropene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
Ethylbenzene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20
2-Hexanone	A	ND	11		µg/Kg-dry	1	11/10/07 10:20
4-Methyl-2-Pentanone	A	ND	11		µg/Kg-dry	1	11/10/07 10:20



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-9r (15-17.5')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-07  
 Collection Date: 11/05/07 17:00  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B		Prep Date/Time:			Analyst: BRR	
Methyl-t-Butyl Ether	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
Methylene chloride	A	ND	21		µg/Kg-dry	1	11/10/07 10:20	
Styrene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
1,1,1,2-Tetrachloroethane	A	ND	11		µg/Kg-dry	1	11/10/07 10:20	
1,1,2,2-Tetrachloroethane	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
Tetrachloroethene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
Toluene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
1,1,1-Trichloroethane	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
1,1,2-Trichloroethane	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
Trichloroethene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
Trichlorofluoromethane	A	ND	11		µg/Kg-dry	1	11/10/07 10:20	
Vinyl Acetate	A	ND	11		µg/Kg-dry	1	11/10/07 10:20	
Vinyl chloride	A	ND	11		µg/Kg-dry	1	11/10/07 10:20	
m,p-Xylene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
o-Xylene	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
Total Xylenes	A	ND	5.4		µg/Kg-dry	1	11/10/07 10:20	
Surr: 4-Bromofluorobenzene	S	85.7	57.4-135		%REC	1	11/10/07 10:20	
Surr: Dibromofluoromethane	S	90.7	63.5-139		%REC	1	11/10/07 10:20	
Surr: 1,2-Dichloroethane-d4	S	97.0	51.7-162		%REC	1	11/10/07 10:20	
Surr: Toluene-d8	S	93.3	66.6-143		%REC	1	11/10/07 10:20	

PERCENT MOISTURE		Method: 2540B_18ED		Prep Date/Time:			Analyst: BJH	
Percent Moisture	A	6.9	0.10		WT%	1	11/08/07 13:35	





**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-9r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-08  
 Collection Date: 11/05/07 17:10  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**TOTAL METALS** Method: **SW6010B** Prep Date/Time: **11/08/07 08:40** Analyst: **AVC**

Arsenic	A	<b>1.1</b>	0.54		mg/Kg-dry	1	11/12/07 16:37
Barium	A	<b>4.9</b>	0.11		mg/Kg-dry	1	11/12/07 16:37
Cadmium	A	<b>0.29</b>	0.11		mg/Kg-dry	1	11/12/07 16:37
Chromium	A	<b>11</b>	0.16		mg/Kg-dry	1	11/12/07 16:37
Lead	A	<b>2.6</b>	0.41		mg/Kg-dry	1	11/12/07 16:37
Selenium	A	<b>14</b>	1.6		mg/Kg-dry	1	11/12/07 16:37
Silver	A	<b>ND</b>	0.54		mg/Kg-dry	1	11/12/07 16:37

**TOTAL METALS** Method: **SW7471A** Prep Date/Time: **11/08/07 09:00** Analyst: **SAA**

Mercury	A	<b>ND</b>	0.045		mg/Kg-dry	1	11/09/07 12:03
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

4-Bromophenyl phenyl ether	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Bis(2-ethylhexyl)phthalate	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Acenaphthene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Acenaphthylene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Acetophenone	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Aniline	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Anthracene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Benzidine	A	<b>ND</b>	2000		µg/Kg-dry	1	11/10/07 00:47
Benzo[a]anthracene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Benzo[a]pyrene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Benzo[b]fluoranthene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Benzo[g,h,i]perylene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Benzo[k]fluoranthene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Benzoic acid	A	<b>ND</b>	2000		µg/Kg-dry	1	11/10/07 00:47
Benzyl alcohol	A	<b>ND</b>	810		µg/Kg-dry	1	11/10/07 00:47
Bis(2-chloroethoxy)methane	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Bis(2-chloroethyl)ether	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Bis(2-chloroisopropyl)ether	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Butyl benzyl phthalate	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Carbazole	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
4-Chloro-3-methylphenol	A	<b>ND</b>	810		µg/Kg-dry	1	11/10/07 00:47
4-Chloroaniline	A	<b>ND</b>	810		µg/Kg-dry	1	11/10/07 00:47
2-Chloronaphthalene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
2-Chlorophenol	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
4-Chlorophenyl phenyl ether	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Chrysene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Dibenz[a,h]anthracene	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47
Dibenzofuran	A	<b>ND</b>	410		µg/Kg-dry	1	11/10/07 00:47

# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-9r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-08  
 Collection Date: 11/05/07 17:10  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: SW8270C		Prep Date/Time: 11/09/07 04:48 Analyst: BEM					
1,2-Dichlorobenzene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
1,3-Dichlorobenzene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
1,4-Dichlorobenzene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
3,3'-Dichlorobenzidine	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
2,4-Dichlorophenol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
2,6-Dichlorophenol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Diethyl phthalate	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Dimethyl phthalate	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
2,4-Dimethylphenol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Di-n-butyl phthalate	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Di-n-octyl phthalate	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
4,6-Dinitro-2-methylphenol	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
2,4-Dinitrophenol	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
2,4-Dinitrotoluene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
2,6-Dinitrotoluene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
1,2-Diphenyl-hydrazine	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Fluoranthene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Fluorene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Hexachlorobenzene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Hexachlorobutadiene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Hexachlorocyclopentadiene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Hexachloroethane	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Indeno[1,2,3cd]pyrene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Isophorone	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
2-Methylnaphthalene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
2-Methylphenol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
3/4-Methylphenol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
2-Nitroaniline	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
3-Nitroaniline	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
4-Nitroaniline	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
2-Nitrophenol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
4-Nitrophenol	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
N-Nitrosodi-n-propylamine	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
N-Nitrosodimethylamine	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
N-Nitrosodiphenylamine	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Naphthalene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Nitrobenzene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Pentachlorophenol	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
Phenanthrene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Phenol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

*Client:* SESCO Group, Inc.  
*Client Project:* 3316 - Sibley / South Bend, IN  
*Client Sample ID:* SB-9r (22.5-25')  
*Sample Description:*  
*Sample Matrix:* Soil

*Work Order / ID:* ME0711271-08  
*Collection Date:* 11/05/07 17:10  
*Date Received:* 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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**SEMIVOLATILE ORGANICS** Method: **SW8270C** Prep Date/Time: **11/09/07 04:48** Analyst: **BEM**

Pyrene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Pyridine	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
1,2,4-Trichlorobenzene	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
2,4,5-Trichlorophenol	A	ND	2000		µg/Kg-dry	1	11/10/07 00:47
2,4,6-Trichlorophenol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
Total Cresol	A	ND	410		µg/Kg-dry	1	11/10/07 00:47
<i>Surr: Nitrobenzene-d5</i>	S	41.1	10-139		%REC	1	11/10/07 00:47
<i>Surr: 2-Fluorobiphenyl</i>	S	38.0	10-124		%REC	1	11/10/07 00:47
<i>Surr: Terphenyl-d14</i>	S	58.0	10-157		%REC	1	11/10/07 00:47
<i>Surr: Phenol-d5</i>	S	45.5	10-97.5		%REC	1	11/10/07 00:47
<i>Surr: 2-Fluorophenol</i>	S	42.7	10-91.4		%REC	1	11/10/07 00:47
<i>Surr: 2,4,6-Tribromophenol</i>	S	46.8	10-107		%REC	1	11/10/07 00:47

**VOLATILE ORGANICS** Method: **SW8260B** Prep Date/Time: Analyst: **MLT**

Acetone	A	ND	62		µg/Kg-dry	1	11/09/07 17:36
Acrolein	A	ND	120		µg/Kg-dry	1	11/09/07 17:36
Acrylonitrile	A	ND	120		µg/Kg-dry	1	11/09/07 17:36
Benzene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
Bromodichloromethane	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
Bromoform	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
Bromomethane	A	ND	12		µg/Kg-dry	1	11/09/07 17:36
2-Butanone	A	ND	12		µg/Kg-dry	1	11/09/07 17:36
Carbon Disulfide	A	ND	12		µg/Kg-dry	1	11/09/07 17:36
Carbon tetrachloride	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
Chlorobenzene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
Chloroethane	A	ND	12		µg/Kg-dry	1	11/09/07 17:36
Chloroform	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
Chloromethane	A	ND	12		µg/Kg-dry	1	11/09/07 17:36
Dibromochloromethane	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
1,1-Dichloroethane	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
1,2-Dichloroethane	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
1,1-Dichloroethene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
cis-1,2-Dichloroethene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
trans-1,2-Dichloroethene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
1,2-Dichloropropane	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
cis-1,3-Dichloropropene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
trans-1,3-Dichloropropene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
Ethylbenzene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36
2-Hexanone	A	ND	12		µg/Kg-dry	1	11/09/07 17:36
4-Methyl-2-Pentanone	A	ND	12		µg/Kg-dry	1	11/09/07 17:36



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: SB-9r (22.5-25')  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-08  
 Collection Date: 11/05/07 17:10  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANICS		Method: SW8260B		Prep Date/Time:			Analyst: MLT	
Methyl-t-Butyl Ether	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
Methylene chloride	A	ND	25		µg/Kg-dry	1	11/09/07 17:36	
Styrene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
1,1,1,2-Tetrachloroethane	A	ND	12		µg/Kg-dry	1	11/09/07 17:36	
1,1,2,2-Tetrachloroethane	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
Tetrachloroethene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
Toluene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
1,1,1-Trichloroethane	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
1,1,2-Trichloroethane	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
Trichloroethene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
Trichlorofluoromethane	A	ND	12		µg/Kg-dry	1	11/09/07 17:36	
Vinyl Acetate	A	ND	12		µg/Kg-dry	1	11/09/07 17:36	
Vinyl chloride	A	ND	12		µg/Kg-dry	1	11/09/07 17:36	
m,p-Xylene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
o-Xylene	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
Total Xylenes	A	ND	6.2		µg/Kg-dry	1	11/09/07 17:36	
Surr: 4-Bromofluorobenzene	S	89.2	57.4-135		%REC	1	11/09/07 17:36	
Surr: Dibromofluoromethane	S	96.9	63.5-139		%REC	1	11/09/07 17:36	
Surr: 1,2-Dichloroethane-d4	S	95.9	51.7-162		%REC	1	11/09/07 17:36	
Surr: Toluene-d8	S	95.0	66.6-143		%REC	1	11/09/07 17:36	

PERCENT MOISTURE		Method: 2540B_18ED		Prep Date/Time:			Analyst: BJH	
Percent Moisture	A	19	0.10		WT%	1	11/08/07 13:35	



# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: DUPLICATE  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-09  
 Collection Date: 11/05/07 00:00  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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### TOTAL METALS

Method: SW6010B

Prep Date/Time: 11/08/07 08:40 Analyst: AVC

Arsenic	A	1.9	0.52		mg/Kg-dry	1	11/12/07 16:43
Barium	A	13	0.10		mg/Kg-dry	1	11/12/07 16:43
Cadmium	A	0.98	0.10		mg/Kg-dry	1	11/12/07 16:43
Chromium	A	6.5	0.15		mg/Kg-dry	1	11/12/07 16:43
Lead	A	5.2	0.39		mg/Kg-dry	1	11/12/07 16:43
Selenium	A	ND	1.5		mg/Kg-dry	1	11/12/07 16:43
Silver	A	ND	0.52		mg/Kg-dry	1	11/12/07 16:43

### TOTAL METALS

Method: SW7471A

Prep Date/Time: 11/08/07 09:00 Analyst: SAA

Mercury	A	ND	0.044		mg/Kg-dry	1	11/09/07 12:05
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### SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

4-Bromophenyl phenyl ether	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Bis(2-ethylhexyl)phthalate	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Acenaphthene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Acenaphthylene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Acetophenone	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Aniline	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Anthracene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Benzidine	A	ND	1700		µg/Kg-dry	1	11/10/07 01:12
Benzo[a]anthracene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Benzo[a]pyrene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Benzo[b]fluoranthene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Benzo[g,h,i]perylene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Benzo[k]fluoranthene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Benzoic acid	A	ND	1700		µg/Kg-dry	1	11/10/07 01:12
Benzyl alcohol	A	ND	700		µg/Kg-dry	1	11/10/07 01:12
Bis(2-chloroethoxy)methane	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Bis(2-chloroethyl)ether	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Bis(2-chloroisopropyl)ether	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Butyl benzyl phthalate	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Carbazole	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
4-Chloro-3-methylphenol	A	ND	700		µg/Kg-dry	1	11/10/07 01:12
4-Chloroaniline	A	ND	700		µg/Kg-dry	1	11/10/07 01:12
2-Chloronaphthalene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
2-Chlorophenol	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
4-Chlorophenyl phenyl ether	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Chrysene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Dibenz[a,h]anthracene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Dibenzofuran	A	ND	350		µg/Kg-dry	1	11/10/07 01:12

# ANALYTICAL RESULTS

Date: *Wednesday, November 14, 2007*

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: DUPLICATE  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-09  
 Collection Date: 11/05/07 00:00  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
<b>SEMIVOLATILE ORGANICS</b>							
Method: <b>SW8270C</b>		Prep Date/Time: <b>11/09/07 04:48</b> Analyst: <b>BEM</b>					
1,2-Dichlorobenzene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
1,3-Dichlorobenzene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
1,4-Dichlorobenzene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
3,3'-Dichlorobenzidine	A	<b>ND</b>	1700		µg/Kg-dry	1	11/10/07 01:12
2,4-Dichlorophenol	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
2,6-Dichlorophenol	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Diethyl phthalate	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Dimethyl phthalate	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
2,4-Dimethylphenol	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Di-n-butyl phthalate	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Di-n-octyl phthalate	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
4,6-Dinitro-2-methylphenol	A	<b>ND</b>	1700		µg/Kg-dry	1	11/10/07 01:12
2,4-Dinitrophenol	A	<b>ND</b>	1700		µg/Kg-dry	1	11/10/07 01:12
2,4-Dinitrotoluene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
2,6-Dinitrotoluene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
1,2-Diphenyl-hydrazine	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Fluoranthene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Fluorene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Hexachlorobenzene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Hexachlorobutadiene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Hexachlorocyclopentadiene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Hexachloroethane	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Indeno[1,2,3cd]pyrene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Isophorone	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
2-Methylnaphthalene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
2-Methylphenol	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
3/4-Methylphenol	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
2-Nitroaniline	A	<b>ND</b>	1700		µg/Kg-dry	1	11/10/07 01:12
3-Nitroaniline	A	<b>ND</b>	1700		µg/Kg-dry	1	11/10/07 01:12
4-Nitroaniline	A	<b>ND</b>	1700		µg/Kg-dry	1	11/10/07 01:12
2-Nitrophenol	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
4-Nitrophenol	A	<b>ND</b>	1700		µg/Kg-dry	1	11/10/07 01:12
N-Nitrosodi-n-propylamine	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
N-Nitrosodimethylamine	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
N-Nitrosodiphenylamine	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Naphthalene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Nitrobenzene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Pentachlorophenol	A	<b>ND</b>	1700		µg/Kg-dry	1	11/10/07 01:12
Phenanthrene	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12
Phenol	A	<b>ND</b>	350		µg/Kg-dry	1	11/10/07 01:12

# ANALYTICAL RESULTS

Date: Wednesday, November 14, 2007

Client: SESCO Group, Inc.  
 Client Project: 3316 - Sibley / South Bend, IN  
 Client Sample ID: DUPLICATE  
 Sample Description:  
 Sample Matrix: Soil

Work Order / ID: ME0711271-09  
 Collection Date: 11/05/07 00:00  
 Date Received: 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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## SEMIVOLATILE ORGANICS

Method: SW8270C

Prep Date/Time: 11/09/07 04:48 Analyst: BEM

Pyrene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Pyridine	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
1,2,4-Trichlorobenzene	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
2,4,5-Trichlorophenol	A	ND	1700		µg/Kg-dry	1	11/10/07 01:12
2,4,6-Trichlorophenol	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Total Cresol	A	ND	350		µg/Kg-dry	1	11/10/07 01:12
Surr: Nitrobenzene-d5	S	10.0	10-139		%REC	1	11/10/07 01:12
Surr: 2-Fluorobiphenyl	S	10.9	10-124		%REC	1	11/10/07 01:12
Surr: Terphenyl-d14	S	14.5	10-157		%REC	1	11/10/07 01:12
Surr: Phenol-d5	S	10.8	10-97.5		%REC	1	11/10/07 01:12
Surr: 2-Fluorophenol	S	11.0	10-91.4		%REC	1	11/10/07 01:12
Surr: 2,4,6-Tribromophenol	S	11.1	10-107		%REC	1	11/10/07 01:12

## VOLATILE ORGANICS

Method: SW8260B

Prep Date/Time:

Analyst: MLT

Acetone	A	ND	53		µg/Kg-dry	1	11/09/07 18:11
Acrolein	A	ND	110		µg/Kg-dry	1	11/09/07 18:11
Acrylonitrile	A	ND	110		µg/Kg-dry	1	11/09/07 18:11
Benzene	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
Bromodichloromethane	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
Bromoform	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
Bromomethane	A	ND	11		µg/Kg-dry	1	11/09/07 18:11
2-Butanone	A	ND	11		µg/Kg-dry	1	11/09/07 18:11
Carbon Disulfide	A	ND	11		µg/Kg-dry	1	11/09/07 18:11
Carbon tetrachloride	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
Chlorobenzene	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
Chloroethane	A	ND	11		µg/Kg-dry	1	11/09/07 18:11
Chloroform	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
Chloromethane	A	ND	11		µg/Kg-dry	1	11/09/07 18:11
Dibromochloromethane	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
1,1-Dichloroethane	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
1,2-Dichloroethane	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
1,1-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
cis-1,2-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
trans-1,2-Dichloroethene	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
1,2-Dichloropropane	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
cis-1,3-Dichloropropene	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
trans-1,3-Dichloropropene	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
Ethylbenzene	A	ND	5.3		µg/Kg-dry	1	11/09/07 18:11
2-Hexanone	A	ND	11		µg/Kg-dry	1	11/09/07 18:11
4-Methyl-2-Pentanone	A	ND	11		µg/Kg-dry	1	11/09/07 18:11



**ANALYTICAL RESULTS**

**Date:** Wednesday, November 14, 2007

**Client:** SESCO Group, Inc.  
**Client Project:** 3316 - Sibley / South Bend, IN  
**Client Sample ID:** DUPLICATE  
**Sample Description:**  
**Sample Matrix:** Soil

**Work Order / ID:** ME0711271-09  
**Collection Date:** 11/05/07 00:00  
**Date Received:** 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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<b>VOLATILE ORGANICS</b>		Method: <b>SW8260B</b>	Prep Date/Time:	Analyst: <b>MLT</b>
Methyl-t-Butyl Ether	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
Methylene chloride	A	<b>ND</b>	21	µg/Kg-dry 1 11/09/07 18:11
Styrene	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
1,1,1,2-Tetrachloroethane	A	<b>ND</b>	11	µg/Kg-dry 1 11/09/07 18:11
1,1,2,2-Tetrachloroethane	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
Tetrachloroethene	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
Toluene	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
1,1,1-Trichloroethane	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
1,1,2-Trichloroethane	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
Trichloroethene	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
Trichlorofluoromethane	A	<b>ND</b>	11	µg/Kg-dry 1 11/09/07 18:11
Vinyl Acetate	A	<b>ND</b>	11	µg/Kg-dry 1 11/09/07 18:11
Vinyl chloride	A	<b>ND</b>	11	µg/Kg-dry 1 11/09/07 18:11
m,p-Xylene	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
o-Xylene	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
Total Xylenes	A	<b>ND</b>	5.3	µg/Kg-dry 1 11/09/07 18:11
Surr: 4-Bromofluorobenzene	S	81.2	57.4-135	%REC 1 11/09/07 18:11
Surr: Dibromofluoromethane	S	97.0	63.5-139	%REC 1 11/09/07 18:11
Surr: 1,2-Dichloroethane-d4	S	98.2	51.7-162	%REC 1 11/09/07 18:11
Surr: Toluene-d8	S	102	66.6-143	%REC 1 11/09/07 18:11

<b>PERCENT MOISTURE</b>		Method: <b>2540B_18ED</b>	Prep Date/Time:	Analyst: <b>BJH</b>
Percent Moisture	A	<b>5.8</b>	0.10	WT% 1 11/08/07 13:35





**ANALYTICAL RESULTS**

**Date:** *Wednesday, November 14, 2007*

*Client:* SESCO Group, Inc.  
*Client Project:* 3316 - Sibley / South Bend, IN  
*Client Sample ID:* TRIP BLANK  
*Sample Description:*  
*Sample Matrix:* Aqueous

*Work Order / ID:* ME0711271-10  
*Collection Date:*  
*Date Received:* 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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VOLATILE ORGANIC COMPOUNDS		Method: SW8260B	Prep Date/Time:			Analyst: CLR	
Acetone	A	7.1	5.0		µg/L	1	11/13/07 14:23
Acrolein	A	ND	10		µg/L	1	11/13/07 14:23
Acrylonitrile	A	ND	10		µg/L	1	11/13/07 14:23
Benzene	A	ND	1.0		µg/L	1	11/13/07 14:23
Bromodichloromethane	A	ND	1.0		µg/L	1	11/13/07 14:23
Bromoform	A	ND	1.0		µg/L	1	11/13/07 14:23
Bromomethane	A	ND	2.0		µg/L	1	11/13/07 14:23
2-Butanone	A	ND	2.0		µg/L	1	11/13/07 14:23
Carbon Disulfide	A	ND	2.0		µg/L	1	11/13/07 14:23
Carbon tetrachloride	A	ND	1.0		µg/L	1	11/13/07 14:23
Chlorobenzene	A	ND	1.0		µg/L	1	11/13/07 14:23
Chloroethane	A	ND	2.0		µg/L	1	11/13/07 14:23
Chloroform	A	ND	1.0		µg/L	1	11/13/07 14:23
Chloromethane	A	ND	2.0		µg/L	1	11/13/07 14:23
Dibromochloromethane	A	ND	1.0		µg/L	1	11/13/07 14:23
1,1-Dichloroethane	A	ND	1.0		µg/L	1	11/13/07 14:23
1,2-Dichloroethane	A	ND	1.0		µg/L	1	11/13/07 14:23
1,1-Dichloroethene	A	ND	1.0		µg/L	1	11/13/07 14:23
cis-1,2-Dichloroethene	A	ND	1.0		µg/L	1	11/13/07 14:23
trans-1,2-Dichloroethene	A	ND	1.0		µg/L	1	11/13/07 14:23
1,2-Dichloropropane	A	ND	1.0		µg/L	1	11/13/07 14:23
cis-1,3-Dichloropropene	A	ND	1.0		µg/L	1	11/13/07 14:23
trans-1,3-Dichloropropene	A	ND	1.0		µg/L	1	11/13/07 14:23
Ethylbenzene	A	ND	1.0		µg/L	1	11/13/07 14:23
2-Hexanone	A	ND	2.0		µg/L	1	11/13/07 14:23
4-Methyl-2-Pentanone	A	ND	1.0		µg/L	1	11/13/07 14:23
Methyl-t-Butyl Ether	A	ND	2.0		µg/L	1	11/13/07 14:23
Methylene chloride	A	ND	2.0		µg/L	1	11/13/07 14:23
Styrene	A	ND	1.0		µg/L	1	11/13/07 14:23
1,1,1,2-Tetrachloroethane	A	ND	2.0		µg/L	1	11/13/07 14:23
1,1,2,2-Tetrachloroethane	A	ND	1.0		µg/L	1	11/13/07 14:23
Tetrachloroethene	A	ND	1.0		µg/L	1	11/13/07 14:23
Toluene	A	1.2	1.0		µg/L	1	11/13/07 14:23
1,1,1-Trichloroethane	A	ND	1.0		µg/L	1	11/13/07 14:23
1,1,2-Trichloroethane	A	ND	1.0		µg/L	1	11/13/07 14:23
Trichloroethene	A	ND	1.0		µg/L	1	11/13/07 14:23
Vinyl Acetate	A	ND	2.0		µg/L	1	11/13/07 14:23
Vinyl chloride	A	ND	2.0		µg/L	1	11/13/07 14:23
m,p-Xylene	A	ND	1.0		µg/L	1	11/13/07 14:23
o-Xylene	A	ND	1.0		µg/L	1	11/13/07 14:23



**ANALYTICAL RESULTS**

**Date:** *Wednesday, November 14, 2007*

**Client:** SESCO Group, Inc.  
**Client Project:** 3316 - Sibley / South Bend, IN  
**Client Sample ID:** TRIP BLANK  
**Sample Description:**  
**Sample Matrix:** Aqueous

**Work Order / ID:** ME0711271-10  
**Collection Date:**  
**Date Received:** 11/07/07 11:05

Analyses	ST	Result	RL	Qual	Units	DF	Analyzed
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<b>VOLATILE ORGANIC COMPOUNDS</b>		Method: <b>SW8260B</b>	Prep Date/Time:			Analyst: <b>CLR</b>	
Trichlorofluoromethane	A	<b>ND</b>	2.0		µg/L	1	11/13/07 14:23
Total Xylenes	A	<b>ND</b>	1.0		µg/L	1	11/13/07 14:23
<i>Surr: 4-Bromofluorobenzene</i>	S	96.5	74.3-123		%REC	1	11/13/07 14:23
<i>Surr: Dibromofluoromethane</i>	S	105	84.9-118		%REC	1	11/13/07 14:23
<i>Surr: 1,2-Dichloroethane-d4</i>	S	109	77.9-126		%REC	1	11/13/07 14:23
<i>Surr: Toluene-d8</i>	S	99.4	80.8-118		%REC	1	11/13/07 14:23



**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)**

Table with 4 columns defining abbreviations: NA = Not Analyzed, mg/L = Milligrams per Liter (ppm), mg/Kg = Milligrams per Kilogram (ppm), U = Undetected, J = Analyte concentration detected between RL and MDL (Metals / Organics), B = Detected in the associated Method Blank at a concentration above the routine PQL/RL, b = Detected in the associated Method Blank at a concentration above the Method Detection Limit but less than the routine PQL/RL, D = Surrogate recoveries are not calculated due to sample dilution, ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if listed), E = Value above quantitation range, H = Analyte was prepared and/or analyzed outside of the analytical method holding time, I = Matrix Interference, R = RPD outside accepted recovery limits, S = Spike recovery outside recovery limits, Surr = Surrogate, DF = Dilution Factor, RL = Reporting Limit, ST = Sample Type, MDL = Method Detection Limit.

**SAMPLE TYPES**

Table with 2 columns: A = Analyte, I = Internal Standard, S = Surrogate, T = Tentatively Identified Compound (TIC, concentration estimated).

**QC SAMPLE IDENTIFICATIONS**

Table with 3 columns defining QC sample types: MBLK = Method Blank, DUP = Method Duplicate, LCS = Laboratory Control Sample, MS = Matrix Spike, ICB = Initial Calibration Blank, ICV = Initial Calibration Verification, PDS = Post Digestion Spike, ICSA = Interference Check Standard "A", ICSAB = Interference Check Standard "AB", LCSD = Laboratory Control Sample Duplicate, MSD = Matrix Spike Duplicate, CCB = Continuing Calibration Blank, CCV = Continuing Calibration Verification, SD = Serial Dilution, OPR = Ongoing Precision and Recovery Standard.

**CERTIFICATIONS**

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- Illinois EPA for the analysis wastewater and solid waste in accordance with the requirements of the National Environmental Laboratory Accreditation Program [NELAP] (accreditation #100435)
- Illinois Department of Public Health for the microbiological analysis of drinking water (registry #175458)
- Indiana DEM approved support laboratory for solid waste and wastewater analyses
- Indiana SDH for the chemical analysis of drinking water (lab #C-45-02)
- Indiana SDH for the microbiological analysis of drinking water (lab #M-45-08)
- Kentucky EPPC for the analysis of samples applicable to the Underground Storage Tank program (lab #0061)
- North Carolina DENR for the environmental analysis for NPDES effluent, surface water, groundwater, and pretreatment regulations (certificate #597)
- Wisconsin DNR for the chemical analysis of wastewater and solid waste (lab #998036710)

**MICROBAC LOCATIONS, SERVICE CENTERS (SC) AND SATELLITE OFFICES (Sat)**

Table listing Microbac locations: Baltimore Division (Baltimore, MD), Camp Hill Division (Camp Hill, PA), Camp Hill Division (SC) (Pittston, PA), Chicagoland Division (Merrillville, IN), Chicagoland Division (SC) (Indianapolis, IN), Corona Division (Corona, CA), Erie Division (Erie, PA), Fayetteville Division (Fayetteville, NC), Hauser Division (Boulder, CO), Kentucky Division (Louisville, KY), Kentucky Division (Sat) (Evansville, IN), Kentucky Division (Sat) (Lexington, KY), Kentucky Division (Sat) (Paducah, KY), Knoxville Division (Maryville, TN), Massachusetts Division (Marlborough, MA), Microbac Corporate Office (Wexford, PA), Microbac NY - Cortland Office (Cortland, NY), Microbac NY - Waverly Office (Waverly, NY), New Castle Division (New Castle, PA), Pittsburgh Division (Warrendale, PA), Richmond Division (Richmond, VA), South Carolina Division (New Ellenton, SC), South Jersey Division (Turnersville, NJ), Southern Headquarters (Poquoson, VA), Southern Testing Division (Wilson, NC), Southern Testing Division (Sat) (Greensboro, NC), Venice Division (Venice, FL).



**COOLER INSPECTION**

Date: Wednesday, November 14, 2007

Client Name SESCO Group, Inc.  
 Work Order Number ME0711271  
 Checklist completed by SPM | 11/7/2007 5:09:56 PM

Date / Time Received: 11/7/2007 11:05:00 AM  
 Received by: SPM  
 Reviewed by DDG | 11/12/2007 8:17:09 AM

Carrier name: Microbac

- After-Hour Arrival? Yes  No
- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody included sufficient client identification? Yes  No
- Chain of custody included sufficient sample collector information? Yes  No
- Chain of custody included a sample description? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Chain of custody identified the appropriate matrix? Yes  No
- Chain of custody included date of collection? Yes  No
- Chain of custody included time of collection? Yes  No
- Chain of custody identified the appropriate number of containers? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Chain of custody identified the appropriate preservatives (if preserved)? Yes  No
- Samples properly preserved? Yes  No

If No, adjusted by? \_\_\_\_\_ Date/Time \_\_\_\_\_

- Chain of custody included the requested analyses? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Samples received on ice? Yes  No

Container/Temp Blank temperatures Cooler Temp  
 1 1 °C

VOA vials for aqueous samples have zero headspace? No VOA vials submitted  Yes  No

**ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CLIENT NOTIFICATION.**

General Comments: The Trip Blank sample has head space.

Sample ID	Client Sample ID	Comments
ME0711271-01A	SB-8r (10-12.5')	Report in dry weight
ME0711271-02A	SB-8r (22.5-25')	Report in dry weight
ME0711271-03A	SB-4r (10-12.5')	Report in dry weight
ME0711271-04A	SB-4r (22.5-25')	Report in dry weight
ME0711271-05A	SB-5r (12.5-15')	Report in dry weight
ME0711271-06A	SB-5r (22.5-25')	Report in dry weight
ME0711271-07A	SB-9r (15-17.5')	Report in dry weight
ME0711271-08A	SB-9r (22.5-25')	Report in dry weight
ME0711271-09A	DUPLICATE	Report in dry weight
ME0711271-10A	TRIP BLANK	

Microbac

Samples Submitted to: [ ] 250 West 84th Drive Merrillville, IN 46410 Tel: 219-769-8378 Fax: 219-769-1664

[X] 5713 West 85th Street Indianapolis, IN 46278 Tel: 317-872-1375 Fax: 317-872-1379

Chain of Custody Record

Number 76723

Instructions on back

Client Name SESCO, Project 3316-Sibley, Address 1426 W. 29th St., Location South Bend, IN, Turnaround Time [ ] Routine [ ] RUSH, Report Type [ ] Results Only [ ] Level III [ ] Level IV

Sampled by (PRINT) T. Pippin, Sampler Signature Tonia Pippin, Sampler Phone # (317) 347-9590, Send Report via [ ] Mail [ ] Telephone [ ] Fax [X] e-mail (address) carla@sescogroup.com

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
\*\* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Table with columns: Client Sample ID, Matrix\*, Grab, Composite, Filtered, Date Collected, Time Collected, No. of Containers, Requested Analyses, Preservative Types, For Lab Use Only. Rows include SB-8r, SB-4r, SB-5r, SB-9r, Duplicate, Trip Blank.

Possible Hazard Identification [ ] Hazardous [ ] Non-Hazardous [ ] Radioactive, Sample Disposition [ ] Dispose as appropriate [ ] Return [ ] Archive

Comments, Relinquished By (signature), Date/Time, Received By (signature), Date/Time. Includes signatures of Tonia Pippin and M. McCard.

ME0711271, SESCO GROUP, INC., 3316 - Sibley / South Bend, IN, Carla Gill, 11/13/2007, DDG, Page 43 of 43



WELL NUMBER: \_\_\_\_\_

## SAMPLING FIELD DATA SHEET

PROJECT NUMBER: \_\_\_\_\_

SAMPLERS: SN

WEATHER CONDITIONS: \_\_\_\_\_

DATE: 10-31-07

Monitoring Pt. Number	Sample No. <sup>1</sup>	Time	WATER QUALITY PARAMETERS								
			Depth to Water	Depth of Well	Purge Volume	pH	Specific Conduct	DO	Temp	ORP	Appearance/Odor
MW-1 +	Total Dup metals	10:30	13.05	22.87		6.43	0.603	8.97	16.5	120	
MW-2		1:15	14.23	22.95		6.37	1.25	10.46	17.4	132	
MW-3	MS/MSD total metals	2:30	13.92	22.89		6.55	1.06	10.78	16.6	137	

<sup>1</sup>Duplicate samples must have fictitious names or numbers that do not incorporate the name of the well.

WELL CONDITION: \_\_\_\_\_

FIELD INSTRUMENTS: \_\_\_\_\_

OTHER COMMENTS: \_\_\_\_\_

# Microbac

Samples Submitted to:  250 West 84th Drive  
Merrillville, IN 46410  
Tel: 219-769-8378  
Fax: 219-769-1664

5713 West 85th Street  
Indianapolis, IN 46278  
Tel: 317-872-1375  
Fax: 317-872-1379

## Chain of Custody Record

Number **70752**

Instructions on back

Client Name <u>Sesco Group</u>	Project <u>Sibley Foundry</u>	Turnaround Time <input checked="" type="checkbox"/> Routine (7 working days) <input type="checkbox"/> RUSH* (notify lab)  (needed by)	Report Type <input type="checkbox"/> Results Only <input type="checkbox"/> Level II <input checked="" type="checkbox"/> Level III <input type="checkbox"/> Level III-CLP-like <input type="checkbox"/> Level IV <input type="checkbox"/> Level IV CLP-like <input type="checkbox"/> EDD	
Address <u>1426 W 27th St</u>	Location <u>South Canal, IN</u>			
City, State, Zip <u>Indianapolis, IN 46208</u>	PO #			
Contact <u>Carla G. H.</u>	Compliance Monitoring? <input type="checkbox"/> Yes(1) <input type="checkbox"/> No			
Telephone # <u>317-347-9590</u>	(1) Agency/Program			

Sampled by (PRINT) Jay Novak Sampler Signature [Signature] Sampler Phone # 317-509-4627  
Send Report via  Mail  Telephone  Fax (fax #)  e-mail (address) Carla@SescoGroup.com

\* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)  
\*\* Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Matrix*	Grab	Composite	Filtered	Date Collected	Time Collected	No. of Containers	Requested Analyses → Preservative Types ** ↓	For Lab Use Only											
									Total	Metals	Dissolved	Metals								
MW-1 + Dip	GW	X			10-31-07	12:30	2	X												
MW-1						12:30	1		X											
MW-2						1:15	2	X	X											
MW-3 + MS/MSD						2:30	3	X												
MW-3						2:30	1		X											

Possible Hazard Identification  Hazardous  Non-Hazardous  Radioactive Sample Disposition  Dispose as appropriate  Return  Archive

Comments	Relinquished By (signature) <u>[Signature]</u>	Date/Time <u>11-1-07 1:30</u>	Received By (signature) <u>[Signature]</u>	Date/Time <u>11/1/07 1:30</u>
	Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
	Relinquished By (signature)	Date/Time	Received for Lab By (signature)	Date/Time

Sample temperature upon receipt in degrees C =

OFFICE OF AIR QUALITY  
FIELD SURVEILLANCE REPORT

SOURCE: Accucast Technologies

PLANT ID NUMBER: 141-00203

LOCATION: 220 West Eckman Street

OBSERVATION BY: Richard Sekula

OBSERVATION DATE: 2-24-10

CITY: South Bend

REPORT BY: Richard Sekula

REPORT DATE: 2-25-10 *RTS*

COUNTY: St. Joseph

ACES # 114136

PERMIT TYPE: FESOP F141-24573-00203

COMPLAINT INVESTIGATION: NO

COMPLAINT NUMBER:

ATTAINMENT X NONATTAINMENT \_\_\_\_\_ : SO<sub>2</sub> \_\_\_\_\_ CO \_\_\_\_\_ O<sub>3</sub> \_\_\_\_\_ NO<sub>2</sub> \_\_\_\_\_ Pb \_\_\_\_\_ PM<sub>10</sub> \_\_\_\_\_ TSP \_\_\_\_\_

CHECK IF APPLICABLE: NSPS \_\_\_\_\_ PSD \_\_\_\_\_ NESHAP \_\_\_\_\_ OTHER \_\_\_\_\_ (please identify) \_\_\_\_\_

PERSONS/TITLE INTERVIEWED: None

---

**OBJECTIVE(S):** Commitment inspection for FY 2010.

**DESCRIPTION OF SOURCE:** This is a grey iron foundry.

**BACKGROUND:** This source was initially a Title V source, but transitioned to a FESOP which was issued 8-12-08 and remains valid. The last inspection was conducted on 8-26-08 and no violations were documented.

**PROCESS DESCRIPTION/FINDINGS/OBSERVATIONS:** On this date the plant site was vacant. The gates were locked and the snow was completely undisturbed. Snow has covered the ground for a least one month.

This source has struggled recently. It is unknown whether this is a temporary or permanent shutdown. The phone has been disconnected, but their web site still exists.

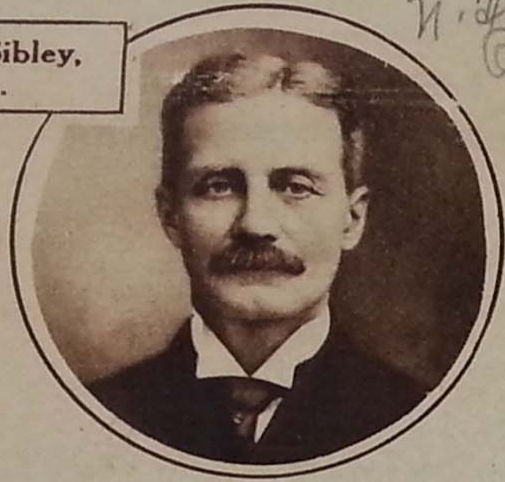
**ADDITIONAL COMMENTS:** An email was sent to Dan Stamatkin informing him of the plant's status.

**CONCLUSION(S):** This source appears to be closed.

**RECOMMENDATION(S):** No further action at this time. Request that the Northern Regional Office conduct a surveillance during the 2011 fiscal year.



Late A. P. Sibley,  
Founder.



# Sibley Machine Company

The Sibley Machine Company was founded in 1876 by A. P. Sibley, H. B. Mills and Geo. O. Ware, in a small shop on what is now Hydraulic Ave., and operated as the Sibley, Mills & Ware Company. Increasing business forced them to larger quarters and they purchased a tract of ground at 206 E. Tutt St., where they erected a large brick machine shop and grey iron foundry.

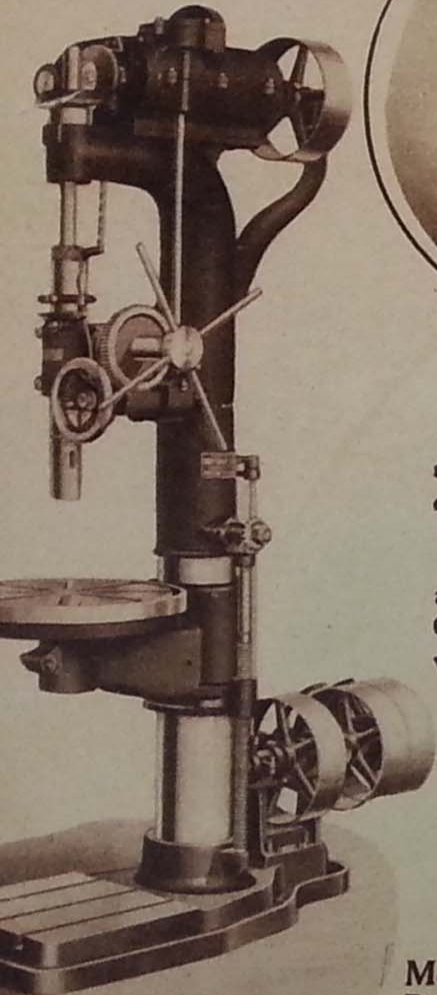
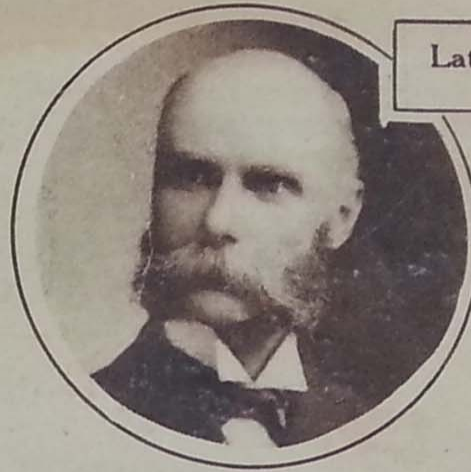
In 1904 the company was incorporated as the Sibley Machine Tool Company, at which time Wm. H. Holland became actively interested in the management, and on the death of Mr. Sibley in 1907, assumed the presidency, retaining this office until the time of his death in 1922.

The present officers, B. J. Voll, president and treasurer, and R. G. Carter, secretary, have been associated with the company for many years and are continuing the successful policies established by the founders.

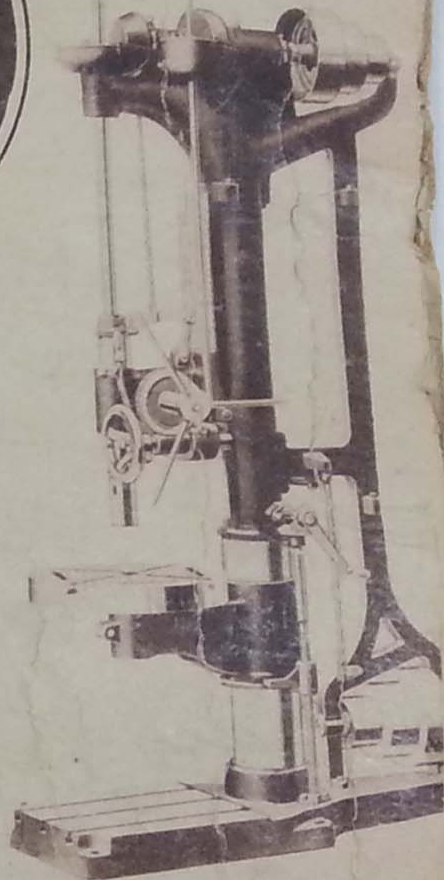
The company operated as the Sibley Machine Tool Company until 1915, at which time the name was changed to the present one of Sibley Machine Company. The principal product manufactured is upright drilling machines, which are sold extensively all over the world.

During the last years of Mr. Holland's presidency he extended the foundry operations and in 1917 acquired the property of the Motor Castings Company at Eckman St. and the Vandalia railroad, adding eight acres and a daily melting capacity of twenty tons. Today the combined plants have a daily capacity of 55 tons of grey iron castings and employ 250 workmen with an annual payroll of \$500,000, forming one of the largest jobbing and production foundries in the mid-west.

Late Geo. O. Ware,  
Founder.



Model B A11 Geared  
Drilling Machine.



Heavy Duty—Sliding  
Head—Upright  
Drilling Machine.

## CREDIT UNION OF SIBLEY CORP. NAMES BURDEN

Clarence L. Burden was re-elected president of the Sibley Employees Federal Credit Union at a meeting Saturday night in St. Stephen's Hall, 1022 W. Thomas St. Others elected were William Dinkledine, vice president; Erick W. Gustafson, treasurer; Delmar R. Wilcox, assistant treasurer; Joseph Molnar, clerk; Lloyd A. Uhler, chairman, and John C. Strom and Paul Anderson, members of the supervisory committee; Joseph M. Torok, chairman, and Peter J. Wrobel Jr., George Barson, Stanley Trzaskowski, and David A. Rakestraw, members of the credit committee; and Lonnie I. Long, chairman, Alvin Stoneburner and Roy W. Ouellette, members of the nominating committee.

During the meeting, Bernard J. Voll, president of the Sibley Machine & Foundry Corp., spoke on current economic conditions. An entertainment program with Roy Withner as master of ceremonies, followed the meeting.

LESLY PLANT  
CREDIT UNION  
PICKS OFFICERS

Clarence L. Burden was elected president of the Sibley Employees' Federal Credit Union Saturday night at the 13th annual dinner being attended by 160 members of the Odd Fellows hall.

Other officers elected are William Dinkledine, vice-president; Erick W. Gustafson, treasurer; Delmar R. Wilcox, assistant treasurer, and Camiel G. Bauwens, clerk. All the officers comprise the board of directors. The supervisory committee will consist of L. Earl Eyers, chairman; Joseph M. Torok, Peter Wrobel, Jr., David A. Rakestraw, George F. Barson and Stanley Trzaskowski, loan committee, and John Strom and Leopold W. Locke.

Talks were given by John E. McKinlyre, manager of the Sibley Machine & Foundry corporation plant; Elmer Barnbrook, of the Teachers' Credit union, and B. J. Voll, president of the Sibley corporation. The invocation was given by Rev. James H. Ellersbrook, pastor of Indiana Avenue Christian church. Miss Marietta Guy played the accordion and Mrs. John Woolley gave a comic monologue.

*N. Times  
Oct. 25, 1927*

2-4-2014 1st Source Bank  
Phase I ESA @ 710 Rush St.

3/26 Walker Piano

Dup - 1 @ C-2 13:41  
Dup - 2 @ F-3 14:58

4/3 Accountant interview w/ Mr.  
Bill Voll 574-276-1074  
could not be reached left  
message

4/9  
bankrupt in '87 B. Voll  
took over in '92 - looked  
to General ~~castings~~ <sup>castings</sup> for a  
while (98-2002) until GC  
got into financial troubles.  
Sibley visited GC and <sup>later</sup> sold  
to Accountant.

- was green sand foundry.
- Switched from coke furnace →  
electric in mid-80s

sand + other crap | ~~Accountant~~ <sup>Accountant</sup>  
- always hauled off | caused financial troubles

wh voll @ sibley machine.com

- B Voll ~~asked~~ <sup>asked</sup> doubts  
Accountant paid its taxes at  
all, and withheld wages.
- GC's income was mostly  
used to haul out foundry  
sand, most of which was  
gone by the Accountant takeover.
- B Voll thought 5/3 bank  
and green acres out of  
Detroit had an interest  
in the site and shipped  
it after accountant.

4/10/12 visit

- Lots of foundry sand along  
old railroad + everything
- occasional clinkers
- debris pile, partly buried  
along E and S of site
- Tall ridge (2 stories tall) of  
foundry sand east of the building

# WEAVER BOOS CONSULTANTS

- 7340 East Caley Avenue, Suite 110 • Centennial, CO 80111 • (720) 529-0132
- 35 E. Wacker Drive, Suite 1250 • Chicago, IL 60601 • (312) 922-1030
- 365 Citrus Tower Blvd., Suite 110 • Clermont, FL 34711 • (352) 241-0848
- 1000 North College Ave., Suite D • Columbia, MO 65201 • (888) 660-0346
- 4260 Tuller Rd. Suite 202 • Dublin, OH 43017 • (614) 389-4132
- 701 N. Weinbach Ave., Suite 730 • Evansville, IN 47711 • (812) 402-8588
- 6420 Southwest Blvd., Suite 206 • Fort Worth, TX 76109 • (817) 735-9770
- 400 Ann Street N.W., Suite 201A • Grand Rapids, MI 40504 • (616) 458-8052
- 1813 N. Mill St., Suite A • Naperville, IL 60563 • (630) 717-4848
- 4085 Meghan Beeler Court • South Bend, IN 46628 • (574) 271-3447
- 2021 Timberbrook Lane • Springfield, IL 62702 • (217) 787-0290

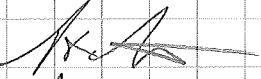


By SMS Date 5/12/2014 Subject ACLUCAST (SIRLEY FOUNDRY) Sheet \_\_\_\_\_ of \_\_\_\_\_

Ckd By \_\_\_\_\_ Date \_\_\_\_\_ OWNER INTERVIEW File No. \_\_\_\_\_

5/12/2014 CALLED STEVEN MICHAEL MOREHEAD @ 317-523-8795. NO ANSWER, LEFT MESSAGE FOR HIM TO RETURN MY CALL.

5/13/2014 11:30 AM HE RETURNED MY CALL, SAYS HE PURCHASED RR ROW AT TAX SALE AND WAS CONTACTED BY THE PROGRAM TO SIGN AN ACCESS AGREEMENT. DIDN'T PAY THE TAXES AND DIDN'T CONSUME A DEED. DIDN'T LEARN ANYTHING FROM PRIOR PROPERTY OWNER. KNOWS LITTLE IN THE WAY OF FACTS

  
5/13/2014

Bob Heslop, MANAGER @ GREEN TECH - INTERVIEWED  
IN PERSON BY GRANT BAKER OF WEAVER BOOS ON 4/29/2014

- no petroleum released to his knowledge
- big pile of rubble - gave quote on disposal
- big pile of foundry sand S of rubble
- building E of foundry sand - <sup>black</sup> sludge up to  
+ bags of sand byproduct??  
SHIPS,
- Larry Morehead was last owner - scrapped +  
abandoned.
- Runoff from prop → green tech, contained  
w/ sand bags.
- underground tunnels ???
- Nevus Veejay ?? was the most recent p4 I

**APPENDIX G**  
**PERSONNEL QUALIFICATIONS**

# STEVEN M. STANFORD, LPG

Senior Project Manager

## Fields of Expertise

Hydrogeology, Groundwater Modeling, Dewatering System Design, Environmental Geology, Risk Assessment, Risk Based Corrective Action, Organic and Inorganic Environmental Chemistry, Site Characterization, Remedial Action Design and Implementation, and RCRA Permitting.

## Certification

Licensed Professional Geologist: Indiana & Illinois

OSHA Hazwoper Health & Safety Training

OSHA Supervisor's Health & Safety Training

UST Decommissioning: IFCI

UST Professional: Michigan

UST Decommissioning: Indiana

## Education

B.S. Geology, Indiana University, 1985.

M.S. Hydrogeology & Environmental Chemistry, Purdue University, 1998.

Modeling Pollutant Movement In Groundwater, 40 hr Continuing Education, U. of Wisconsin, 1986.

Risk-Based Corrective Action Applied at Petroleum Release Sites, 16 hr Continuing Education, American Society of Testing and Materials (ASTM), 2001.

## Professional Summary

Mr. Stanford is a Senior Project Manager with Weaver Boos Consultants. Working as a consultant to industry for 22 years, Mr. Stanford has completed all phases of facility and hydrogeologic site characterization, water well design, the pumping and treatment of groundwater, risk assessment, and remediation, successfully closing and/or permitting numerous TSD, UST, LUST, VRP, and SRP facilities.

Prior to joining Weaver Boos Consultants, Mr. Stanford worked for two nationally recognized environmental firms and co-owned a successful environmental consulting firm for five years. He has enjoyed success in dewatering system design, remedial design, implementation, and the subsequent closure of many significantly impacted facilities using state-of-the-art remediation technology.

## Select Project Experience

Mr. Stanford designed a groundwater interceptor system at a closed Illinois solid waste disposal facility that performed in accordance with its design parameters. The system included a barrier wall and interceptor trench system arranged to utilize a naturally occurring sand layer as a landfill under-drain. The subsurface hydraulics of the system were designed using the USGS MODFLOW groundwater flow model.

Numerous groundwater dewatering and drainage systems have been evaluated, designed, and constructed by Mr. Stanford based on fundamental hydrogeologic principles such as Darcy's law, the Theim equation, and the Theis equation. He has conducted numerous aquifer pumping tests to predict groundwater drawdown, groundwater yield, and to measure hydraulic conductivity, transmissivity, and groundwater flow velocity.

Mr. Stanford served as technical coordinator for a sudden release of 130,000 gallons of chromate-containing emergency cooling water at an integrated steel mill. He designed and supervised the installation of a well point dewatering system to recover and treat chromated cooling water within 48 hours of the release. He negotiated termination of the work and closure of the incident with IDEM Office of Environmental Response only 10 days after the work began.

Mr. Stanford was principally responsible for the hydrogeological assessment and Groundwater Impact Assessment (GIA) relative to the proposed expansion of three Illinois solid waste disposal facilities. His work, including expert testimony, contributed to the successful siting of a proposed 200-acre landfill expansion.

The GIAs prepared by Mr. Stanford utilize groundwater flow models incorporating statistical evaluation of environmental data and other modeling input parameters, literature reviews identifying physico-chemical characteristics for chemically similar groupings of leachate constituents, multi-group surrogate modeling with separate sensitivity analyses, and in select instances, multiple conceptual models utilized to separately assess migration from the bottom and side slopes of the landfill liner

# STEVEN M. STANFORD, LPG

Senior Project Manager

system. He is versed in the evaluation of advection, dispersion, and diffusive contaminant migration mechanisms and is familiar with the most recent research on diffusion transport through clay and high density polyethylene.

Based largely on the Johnson & Ettinger vapor intrusion model as published by EPA in 2003, Mr. Stanford completed a quantitative baseline risk assessment supporting the completion of RCRA corrective action for organic solvents released to soil and groundwater beneath an historical manufacturing facility. His work included quantification of risks resulting from ingestion, inhalation, and dermal contact with soil and groundwater consistent with Risk Assessment Guidance for Superfund (RAGS) Parts A, B, and E.

To close an Indiana Voluntary Remediation Program site, Mr. Stanford prepared a baseline human health risk assessments in accordance with RAGS and ASTM Risk Based Corrective Action technical protocols. His resulting risk assessment allowed successful completion of the remediation based on one of the highest site-specific closure levels approved in Indiana for benzene.

Mr. Stanford has assessed numerous contaminated sites in accordance with ASTM and state-specific risk-based corrective action protocols. This work has included the development of Tier II and Tier III remediation objectives in accordance with Illinois' TACO program and Indiana's RISC non-rule policy. These efforts have included digital and analytical modeling of a variety of exposure pathways including volatilization of VOCs to ambient and indoor air, ingestion, inhalation, and dermal absorption.

Mr. Stanford completed and subsequently obtained approval from IEPA for a supplemental permit application specifying a groundwater quality assessment at a closed Illinois Part 307 facility. The assessment plan incorporated electromagnetic conductivity geophysical methods to aid in the selection of monitoring well locations.

On behalf of a North American railroad company, Mr. Stanford investigated a 98-acre rail yard located in Bensenville, Illinois. He enrolled the facility into Illinois' Site Remediation Program and his Site Investigation/Remedial Objectives Report was

approved. As a consequence, no remediation was found to be necessary for approximately 90 acres of the yard, despite the presence of numerous recognized environmental conditions. On the balance of the site, he installed a vacuum-skimming remediation system that is currently extracting diesel fuel free product from a shallow aquifer.

Mr. Stanford reviewed the proceedings of a Region 5 Superfund Site contaminated by four principal PRPs to develop an equitable allocation of response costs among the PRPs. Boiling point distributions and statistical analyses of site contaminant data were used to identify the contributions of one recalcitrant PRP. His resulting method of allocation utilized the concepts of causality and the stand-alone method of common cost allocation.

Mr. Stanford Investigated and prepared a closure plan for a solvent-recovery TSD facility that was part of a larger NPL site. His closure plan addressed storage (tank) and treatment (vacuum stills) units. He secured IDEM approval, taking advantage of the facility's NPL status to successfully defer subsurface remediation, and implemented closure through successful final certification.

Mr. Stanford investigated and prepared plans for a multi-year TSD/Superfund site closure located in EPA Region 7. He was responsible for all sampling and geological/ hydrogeological characterization of the site and a coauthor of closure documents describing an Expedited Response Action whereby the site was re-graded, capped, and finally covered with a new abutment for a U.S. Highway extended over both the site and the Mississippi River.

Mr. Stanford designed, specified, procured equipment, and installed an air sparging/soil vapor extraction remediation systems for the town of Chesterton, Indiana. This project included 40 air injection wells, four soil vapor extraction wells, process control design and installation, operations, and maintenance. He directed, supervised, and completed all construction activities. After three years of operation, 1,600 pounds of gasoline were recovered as vapor and groundwater BTEX concentrations were either eliminated or reduced by over 95 percent in all monitoring wells.

# STEVEN M. STANFORD, LPG

Senior Project Manager

At an MGP site located in Springfield, Illinois, Mr. Stanford developed a conceptual remediation plan specifying 600 linear feet of groundwater interceptor trench, excavation and stabilization of tar wastes using lime, installation of a state-of-the-art underground tank fuel system, and capping of a facility impacted with gas manufacturing residue. He managed the project through final design, secured IEPA approval, and oversaw construction of the remedy. This project included an extensive ambient air monitoring program utilizing more than a dozen OVAs and four air sampling stations.

Mr. Stanford investigated and planned the remediation of a former automotive service station under Indiana's VRP. His approach included an aggressive form of in-situ air sparging coupled with vapor recovery and thermal catalytic oxidation of exhaust vapors. Within 90 days, BTEX concentrations were either eliminated or reduced by more than 95 percent in all affected monitoring wells. He subsequently obtained a covenant-not-to-sue, signed by the Governor of the State of Indiana, and provided technical support to counsel resulting in the recovery of more than \$360,000 from the responsible party.

For his LUST facility clients, Mr. Stanford has implemented corrective action and recovered more than \$500,000 in associated costs from the Indiana ELTF.

## Publications

"*Determination of the Natural Organic Carbon Fraction of Contaminated Soils*", 2004, presented at the 2004 Midwestern States Risk Symposium, Indianapolis, Indiana.

Co-author "*Field and Numerical Analysis of In-Situ Air Sparging: A Case Study*", 2000, Journal of Hazardous Materials, Vol. 72 p. 217-236.

"*Physical and Biological Effects of In-Situ Air Sparging of Groundwater Contaminated with Organic Chemicals*", 1998, Master's Thesis, Department of Earth and Atmospheric Science, Purdue University.

Contributing author: "*In-Place Precipitation Immobilization of Lead at Uncontrolled Hazardous Waste Sites*", 1987, presented at the Tenth Annual

Madison Waste Conference, University of Wisconsin at Madison.

## Selected Professional Reports

"*Description of the Hydrogeology, Rochelle Municipal Landfill, Proposed Expansion*", 2002, submitted to the City of Rochelle, Illinois.

"*Groundwater Impact Assessment, Rochelle Municipal Landfill, Proposed Expansion*", 2002, submitted to City of Rochelle, Illinois.

"*Groundwater Impact Assessment, Southern Illinois Regional Landfill, Proposed Expansion*", 2002, submitted to IEPA.

"*Groundwater Impact Assessment, Proposed Atkinson Landfill*", 2002, submitted to and approved by IEPA.

"*Baseline Human Health Risk Assessment*," 1998, (Marcus Parcel), submitted to and approved by IDEM VRP.

"*Human Health Risk Assessment, Burlington Basket Site*", 2005, submitted to EPA Region 7, currently pending review.

"*Supplemental Comprehensive Site Investigation and Remediation Objectives Report, Canadian Pacific Railway, Bensenville West Yard*", 2002, submitted to and approved by IEPA SRP.

"*Remediation Completion Report, Bivona, Inc.*", 2002, submitted to and approved by IDEM VRP.

"*Phase II Investigation Report, Bivona, Inc.*", 2001, submitted to and approved by IDEM VRP.

"*Significant Permit Modification, Corrective Action and CQA Plan, Dixon/GROP Landfill*", 2000, submitted to IEPA and subsequently approved.